

# SAFETY DATA SHEET

## 1. Identification

Product identifier	Battery Cleaner Spray	
Other means of identification		
Product code	Kit 04752 includes 00323, 00314	
Recommended use	Battery cleaner	
Recommended restrictions	None known.	
Supplied by:		
Company name	East Penn Manufacturing Co.	
Address	102 Deka Road Lyon Station, PA 19536 United States	
Telephone	610-682-6361	
Website	<a href="http://www.dekabatteries.com">www.dekabatteries.com</a>	
E-mail	Not available.	
Emergency phone number	24-Hour Emergency (CHEMTREC)	800-424-9300 (US) 703-527-3887 (International)

## 2. Hazard(s) identification

Physical hazards	Gases under pressure	Liquefied gas
Health hazards	Not classified.	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

### Label elements



Signal word	Warning
Hazard statement	Contains gas under pressure; may explode if heated.
Precautionary statement	
Prevention	Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 49 °C/120 °F. Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Protect from sunlight. Store in a well-ventilated place. Exposure to high temperature may cause can to burst.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Not applicable.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	CAS number	% by weight
Water	7732-18-5	80 -90
2-Butoxyethanol	111-76-2	2-3
Propellant: Isobutane	75-28-5	10-14
or		
Liquefied Petroleum Gas	68476-86-8	

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms persist.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Call a POISON CENTER or doctor/physician.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Pressurized container may rupture when exposed to heat or flame. During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
General fire hazards	Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillage cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. For product usage instructions, please see the product label.
Conditions for safe storage, including any incompatibilities	Level 1 Aerosol.  Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m <sup>3</sup> 50 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m <sup>3</sup> 5 ppm
Isobutane (CAS 75-28-5)	TWA	1900 mg/m <sup>3</sup> 800 ppm

### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

\* - For sampling details, please see the source document.

### Exposure guidelines

#### US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

#### US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2) Skin designation applies.

#### US - Tennessee OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

#### US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

#### Skin protection

**Hand protection** Wear protective gloves such as nitrile.

**Other** Wear appropriate chemical resistant clothing.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Air monitoring is needed to determine actual employee exposure levels.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.

**Form** Aerosol.

**Color** Clear.

**Odor** Odorless.

**Odor threshold** Not available.

**pH** 8.5

Material name: Battery Cleaner Spray

Melting point/freezing point	-103 °F (-75 °C) estimated
Initial boiling point and boiling range	212 °F (100 °C) estimated
Flash point	None (Closed Cup)
Evaporation rate	Slow.
Flammability (solid, gas)	Not available.
<b>Upper/lower flammability or explosive limits</b>	
Flammability limit - lower (%)	1.3 % estimated
Flammability limit - upper (%)	10.6 % estimated
Vapor pressure	268.5 hPa estimated
Vapor density	> 1 (air = 1)
Relative density	1.04
Solubility (water)	Soluble.
Partition coefficient (N-octanol/water)	Not available.
Auto-ignition temperature	446 °F (230 °C) estimated
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
Percent volatile	94.3 % estimated

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides. Aldehydes. Ketones. Organic acids.

## 11. Toxicological information

### Information on likely routes of exposure

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful.
Skin contact	2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.
Eye contact	Direct contact with eyes may cause temporary irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

Acute toxicity Not known.

Components	Species	Test Results
2-butoxyethanol (CAS 111-76-2)		
<b>Acute</b>		
Oral LD50	Rat	1300 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	

Material name: Battery Cleaner Spray

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)**

Not regulated.

**U.S. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

**12. Ecological information**

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results
2-Butoxyethanol (CAS 111-76-2)		
<b>Aquatic</b>		
<i>Acute</i>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 1550 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout ( <i>Oncorhynchus mykiss</i> ) > 1000 mg/l, 96 hours

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Partition coefficient n-octanol / water (log Kow)**

2-Butoxyethanol 0.81, log Pow

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

**13. Disposal considerations**

**Disposal of waste from residues / unused products** The dispensed liquid product is not a RCRA hazardous waste (See 40 CFR Part 261.20 - 261.33). Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazardous waste code** Not regulated.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

**14. Transport information**

**DOT**

<b>UN number</b>	UN1950
<b>UN proper shipping name</b>	Aerosols, non-flammable, limited quantity
<b>Transport hazard class(es)</b>	
<b>Class</b>	2.2
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	2.2
<b>Packing group</b>	Not applicable.
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Packaging exceptions</b>	306
<b>Packaging non bulk</b>	None

Packaging bulk	None
<b>IATA</b>	
UN number	UN1950
UN proper shipping name	Aerosols, non-flammable, limited quantity
Transport hazard class(es)	
Class	2.2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	2L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

**IMDG**

UN number	UN1950
UN proper shipping name	AEROSOLS, LIMITED QUANTITY
Transport hazard class(es)	
Class	2
Subsidiary risk	-
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.
EmS	Not available.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

**15. Regulatory information**

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	Not regulated.
<b>SARA 304 Emergency release notification</b>	Not regulated.
<b>U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	Not listed.
<b>U.S. EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance</b>	2-Butoxyethanol (CAS 111-76-2)
<b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>	2-Butoxyethanol (CAS 111-76-2)
<b>CERCLA Hazardous Substances: Reportable quantity</b>	Not listed. Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.
<b>Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List</b>	Not regulated.
<b>Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)</b>	Not regulated.
<b>Safe Drinking Water Act (SDWA)</b>	Not regulated.
<b>Food and Drug Administration (FDA)</b>	Not regulated.
<b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>	
<b>Section 311/312 Hazard Categories</b>	Immediate Hazard – No Delayed Hazard – Yes Fire Hazard – No Pressure Hazard – Yes Reactivity Hazard – No

SARA 302 Extremely hazardous substance Not listed.

SARA 313 (TRI reporting)

<u>Chemical name</u>	<u>CAS number</u>	<u>% by wt.</u>
2-butoxyethanol	111-76-2	1-3

US state regulations

US. New Jersey RTK - Substances: Listed substance

2-Butoxyethanol (CAS 111-76-2)

US. Massachusetts RTK - Substance List

2-Butoxyethanol (CAS 111-76-2)

US. Pennsylvania RTK - Hazardous Substances

2-Butoxyethanol (CAS 111-76-2)

US. Rhode Island RTK

2-Butoxyethanol (CAS 111-76-2)

US. California Proposition 65

 **WARNING:** Cancer and Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

1,4-Dioxane (CAS 123-91-1)

Listed: January 1, 1988

Ethylene oxide (CAS 75-21-8)

Listed: July 1, 1987

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Ethylene oxide (CAS 75-21-8)

Listed: August 7, 2009

US - California Proposition 65 - CRT: Listed date/Female reproductive toxin

Ethylene oxide (CAS 75-21-8)

Listed: February 27, 1987

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Ethylene oxide (CAS 75-21-8)

Listed: August 7, 2009

Volatile organic compounds (VOC) regulations

EPA

VOC content (40 CFR 51.100(s))

7.9 %

Consumer products (40 CFR 59, Subpt. C)

Not regulated

State

Consumer products Not regulated

VOC content (CA) 7.9%

VOC content (OTC) 7.9%

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)Yes	
Canada	Domestic Substances List (DSL)Yes	
Canada	Non-Domestic Substances List (NDSL)No	
China	Inventory of Existing Chemical Substances in China (IECSC)Yes	
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)No	
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) InventoryYes

\*A 'Yes' indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A 'No' indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Material name: Battery Cleaner Spray

<b>Issue date</b>	06-26-2018
<b>Version #</b>	05
<b>HMIS® ratings</b>	Health: 1* Flammability: 0 Physical hazard: 0 Personal protection: B
<b>NFPA ratings</b>	Health: 1 Flammability: 0 Instability: 0
<b>Disclaimer</b>	The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of our knowledge or obtained from sources believed to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this SDS consult your supervisor, a health & safety professional, or East Penn Manufacturing Company.



# SAFETY DATA SHEET

## 1. Identification

Product identifier	Battery Protector Coating
Other means of identification	
Product code	Kit 04752 includes 00237,00359,01253,01940,06064,60001
Recommended use	Battery protector
Recommended restrictions	None known.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufactured or sold by:

Company name	East Penn Manufacturing Co.
Address	102 Deka Road Lyon Station, PA 19536 US
Telephone	
General Information	610-682-6361
Technical Assistance	610-682-4231
Customer Service	610-682-4231
24-Hour Emergency (CHEMTREC)	800-424-9300 (US) 703-527-3887 (International)
Website	<a href="http://www.dekabatteries.com">www.dekabatteries.com</a>

## 2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.

### Label elements

Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Use with adequate ventilation. Open doors and windows or use other means to ensure a fresh air supply during use and while product is drying. Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Distillates (petroleum), hydrotreated heavy naphthenic		64742-52-5	60 - 70
Paraffin oils (petroleum), catalytic dewaxed heavy		64742-70-7	10 - 20
Paraffin oils (petroleum), catalytic dewaxed light		64742-71-8	5 - 10
n-Butyl stearate		123-95-5	3 - 5
Fatty Acids, C18-unsatd., Dimers		61788-89-4	1 - 3

Chemical name	Common name and synonyms	CAS number	%
Petrolatum		8009-03-8	1 - 3
Sorbitan monooleate		68910-94-1	1 - 3
Sorbitan oleate		1338-43-8	1 - 3

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

<b>Inhalation</b>	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Rinse with water. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.
<b>Most important symptoms/effects, acute and delayed</b>	Direct contact with eyes may cause temporary irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Treat symptomatically.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Foam. Dry powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	This product is miscible in water.  Large Spills: Stop the flow of material, if this is without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	SDS. Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Use care in handling/storage. For product usage instructions, please see the product label.
<b>Conditions for safe storage, including any incompatibilities of the SDS).</b>	Store in original tightly closed container. Store away from incompatible materials (see Section 10

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### U.S. - OSHA

Components	Type	Value	Form
Fatty Acids, C18-unsatd., Dimers (CAS 61788-89-4)	TWA	5 mg/m3	Respirable

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3 500 ppm	
Paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)	PEL	5 mg/m3	Mist.
Paraffin oils (petroleum), catalytic dewaxed light (CAS 64742-71-8)	PEL	5 mg/m3	Mist.
Petrolatum (CAS 8009-03-8)	PEL	5 mg/m3	Mist.

#### ACGIH

Components	Type	Value	Form
Fatty Acids, C18-unsatd., Dimers (CAS 61788-89-4)	STEL	10 mg/m3	Respirable
	TWA	5 mg/m3	Respirable

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.
n-Butyl stearate (CAS 123-95-5)	TWA	10 mg/m3	
Paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)	TWA	5 mg/m3	Inhalable fraction.
Paraffin oils (petroleum), catalytic dewaxed light (CAS 64742-71-8)	TWA	5 mg/m3	Inhalable fraction.
Petrolatum (CAS 8009-03-8)	TWA	5 mg/m3	Inhalable fraction

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)	Ceiling	1800 mg/m3	
	STEL	10 mg/m3	Mist.
Paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Paraffin oils (petroleum), catalytic dewaxed light (CAS 64742-71-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.
Petrolatum (CAS 8009-03-8)	STEL	10 mg/m3	Mist.
	TWA	5 mg/m3	Mist.

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses with side shields (or goggles).
<b>Skin protection</b>	
<b>Hand protection</b>	Wear protective gloves such as: Neoprene. Nitrile.
<b>Other</b>	Wear suitable protective clothing.
<b>Respiratory protection</b>	If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene considerations</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

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<b>Appearance</b>	
<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Color</b>	Clear. Colorless.
<b>Odor</b>	Mild petroleum.
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	-5 °F (-20.6 °C) estimated
<b>Initial boiling point and boiling range</b>	212 °F (100 °C) estimated
<b>Flash point</b>	> 350 °F (> 176.7 °C) Cleveland Open Cup
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	0.6 hPa estimated
<b>Vapor density</b>	> 1 (air = 1)
<b>Relative density</b>	0.9
<b>Solubility (water)</b>	Negligible.
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	500 °F (260 °C) estimated
<b>Decomposition temperature</b>	Not available.
<b>Viscosity (kinematic)</b>	> 20.5 mm <sup>2</sup> /s (104 °F (40 °C))
<b>Percent volatile</b>	77.3 % estimated

## 10. Stability and reactivity

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<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.

Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Carbon oxides.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Prolonged skin contact may cause temporary irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics  
Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

Acute toxicity Not available.

Product	Species	Test Results
Battery Protector Coating		
<u>Acute</u>		
Dermal		
LD50	Rabbit	2077 mg/kg estimated
Oral		
LD50	Rat	5173 mg/kg estimated

\* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation. irritation	Direct contact with eyes may cause temporary
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall Evaluation of Carcinogenicity	
Not available.	
US. National Toxicology Program (NTP) Report on Carcinogens	
Not available.	
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Further information	This product has no known adverse effect on human health.

## 12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product	Species	Test Results
Battery Protector Coating		
Aquatic		
<u>Acute</u>		
Crustacea	EC50 Daphnia	68538.5938 mg/l, 48 hours estimated

Product		Species	Test Results
Fish	LC50	Fish	4746.7349 ppm, 96 hours estimated
Components		Species	Test Results
Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)			
<b>Aquatic</b>			
<i>Acute</i>			
Fish	LC50	Pimephales promelas	> 30000 mg/l, 96 hours
Sorbitan oleate (CAS 1338-43-8)			
<b>Aquatic</b>			
<i>Acute</i>			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 1000 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

#### Bioaccumulative potential

##### Partition coefficient n-octanol / water (log Kow)

Fatty Acids, C18-unsatd., Dimers 1 - 2.5, logKow

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal of waste from residues / unused products** This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33). Empty containers may be recycled. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations.

**Hazardous waste code** Not regulated.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

### 15. Regulatory information

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

#### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

Not listed.

#### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### CERCLA Hazardous Substances: Reportable quantity

Not listed.

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Food and Drug Administration (FDA)** Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Section 311/312 Hazard categories**  
Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance** No

**US state regulations**

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)  
Paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)  
Paraffin oils (petroleum), catalytic dewaxed light (CAS 64742-71-8)  
Petrolatum (CAS 8009-03-8)

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**  
Not listed.

**US. New Jersey Worker and Community Right-to-Know Act**

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)  
Paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)  
Paraffin oils (petroleum), catalytic dewaxed light (CAS 64742-71-8)

**US. Massachusetts RTK - Substance List**

Distillates (petroleum), hydrotreated heavy naphthenic (CAS 64742-52-5)  
Paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)  
Paraffin oils (petroleum), catalytic dewaxed light (CAS 64742-71-8)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)  
Paraffin oils (petroleum), catalytic dewaxed light (CAS 64742-71-8)

**US. Rhode Island RTK**

None.

**US. California Proposition 65**

 **WARNING: Cancer and Reproductive Harm** [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**Volatile organic compounds (VOC) regulations**

**EPA**

VOC content (40 CFR 100 %  
51.100(s))

**Consumer products (40 CFR 59, Subpt. C)** Not regulated

**State**

**Consumer products** Not regulated

**VOC content (CA)** 0 %

**VOC content (OTC)** 0 %

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A 'Yes' indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A 'No' indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

Issue date	05-28-2015
Revision date	01-01-2018
Prepared by	Allison Cho
Version #	02
Further information	CRC # 551B
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 1 Flammability: 1 Instability: 0

NFPA ratings



### Disclaimer

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of our knowledge or obtained from sources believed to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or East Penn Manufacturing Company.



# SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Battery Terminal Protection Spray</b>	
<b>Other means of identification</b>	Product Code Kit 04752 includes 00322,00315	
<b>Recommended use</b>	Battery terminal protector	
<b>Recommended restrictions</b>	None known.	
<b>Supplied by:</b>		
<b>Company name</b>	East Penn Manufacturing Co.	
<b>Address</b>	102 Deka Road Lyon Station, PA 19536 United States	
<b>Telephone</b>	General Information	610-682-6361
	Customer Service	610-682-4231
<b>Website</b>	<a href="http://www.dekabatteries.com">www.dekabatteries.com</a>	
<b>E-mail</b>	Not available.	
<b>Emergency phone number</b>	24-Hour Emergency (CHEMTREC)	800-424-9300 (US) 703-527-3887 (International)

## 1. Hazard(s) identification

<b>Physical hazards</b>	Flammable aerosols	Category 1
<b>Health hazards</b>	Gases under pressure	Liquefied gas
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Carcinogenicity	Category 2
	Reproductive toxicity (fertility)	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated (central nervous system, kidney, exposure (oral)	Category 2 (liver)
	Aspiration hazard	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		



**Signal word**

Danger

**Hazard statement**

Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility. May cause damage to organs (central nervous system, kidney, liver) through prolonged or repeated exposure by ingestion. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

<b>Precautionary statement</b>	
<b>Prevention</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe mist or vapor. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Avoid release to the environment.
<b>Response</b>	If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. If exposed or concerned: Get medical attention. Collect spillage.
<b>Storage</b>	Store in a well-ventilated place. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
liquefied petroleum gas		68476-86-8	20 - 30
n-heptane		142-82-5	10 - 20
petrolatum		8009-03-8	10 - 20
2-methylpentane		107-83-5	5 - 10
3-methylhexane		589-34-4	5 - 10
naphtha (petroleum), hydrotreated light		64742-49-0	5 - 10
2-methylhexane		591-76-4	3 - 5
heptane, branched, cyclic and linear		426260-76-6	3 - 5
methylcyclohexane		108-87-2	3 - 5
solvent naphtha (petroleum), light aliph.		64742-89-8	3 - 5
3-ethylpentane		617-78-7	1 - 3
ethylbenzene		100-41-4	1 - 3
n-hexane		110-54-3	1 - 3
paraffin oils (petroleum), catalytic dewaxed heavy		64742-70-7	1 - 3
xylene		1330-20-7	1 - 3
3,3-dimethylpentane		562-49-2	< 1
toluene		108-88-3	< 0.3
2,2-dimethylbutane		75-83-2	< 0.2
2,3-dimethylbutane		79-29-8	< 0.2
3-methylpentane		96-14-0	< 0.2

Specific chemical identity and/or percentage of composition has been withheld as a trade secret.

### 4. First-aid measures

<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Skin contact</b>	Remove contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

<b>Most important symptoms/effects, acute and delayed</b>	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause redness and pain. Edema. Jaundice. Prolonged exposure may cause chronic effects.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Contents under pressure. Pressurized container may rupture when exposed to heat or flame. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
<b>Fire-fighting equipment/instructions</b>	In case of fire: Stop leak if safe to do so. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.
<b>General fire hazards</b>	Extremely flammable aerosol. Contents under pressure. Pressurized container may rupture when exposed to heat or flame.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Remove all possible sources of ignition in the surrounding area. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent product from entering drains. Stop the flow of material, if this is without risk. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Use caution around energized equipment. The metal container will conduct electricity if it contacts a live source. This may result in injury to the user from electrical shock and/or flash fire. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. For product usage instructions, see the product label.
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**Conditions for safe storage, including any incompatibilities**

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Avoid spark promoters. These alone may be insufficient to remove static electricity. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

**8. Exposure controls/personal protection**

**Occupational exposure limits**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
ethylbenzene (CAS 100-41-4)	PEL	435 mg/m3	
		100 ppm	
methylcyclohexane (CAS 108-87-2)	PEL	2000 mg/m3	
		500 ppm	
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	PEL	400 mg/m3	
		100 ppm	
n-heptane (CAS 142-82-5)	PEL	2000 mg/m3	
		500 ppm	
n-hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)	PEL	5 mg/m3	Mist.
petrolatum (CAS 8009-03-8)	PEL	5 mg/m3	Mist.
solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)	PEL	400 mg/m3	
		100 ppm	
xylene (CAS 1330-20-7)	PEL	435 mg/m3	
		100 ppm	

**US. OSHA Table Z-2 (29 CFR 1910.1000)**

Components	Type	Value
toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
2,2-dimethylbutane (CAS 75-83-2)	STEL	1000 ppm	
	TWA	500 ppm	
2,3-dimethylbutane (CAS 79-29-8)	STEL	1000 ppm	
	TWA	500 ppm	
2-methylhexane (CAS 591-76-4)	STEL	500 ppm	
	TWA	400 ppm	
2-methylpentane (CAS 107-83-5)	STEL	1000 ppm	
	TWA	500 ppm	
3,3-dimethylpentane (CAS 562-49-2)	STEL	500 ppm	
	TWA	400 ppm	
3-ethylpentane (CAS 617-78-7)	STEL	500 ppm	

**US. ACGIH Threshold Limit Values  
Components**

Components	Type	Value	Form
3-methylhexane (CAS 589-34-4)	TWA	400 ppm	
	STEL	500 ppm	
3-methylpentane (CAS 96-14-0)	TWA	400 ppm	
	STEL	1000 ppm	
ethylbenzene (CAS 100-41-4)	TWA	500 ppm	
	TWA	20 ppm	
methylcyclohexane (CAS 108-87-2)	STEL	500 ppm	
n-heptane (CAS 142-82-5)	TWA	400 ppm	
	STEL	500 ppm	
n-hexane (CAS 110-54-3)	TWA	400 ppm	
	TWA	50 ppm	
paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7) petrolatum (CAS 8009-03-8)	TWA	5 mg/m3	Inhalable fraction
	TWA	5 mg/m3	Inhalable fraction
toluene (CAS 108-88-3)	TWA	20 ppm	
xylene (CAS 1330-20-7)	STEL	150 ppm	
	TWA	100 ppm	

**US. NIOSH: Pocket Guide to Chemical Hazards  
Components**

Components	Type	Value	Form
2,2-dimethylbutane (CAS 75-83-2)	Ceiling	1800 mg/m3	
	TWA	510 ppm	350 mg/m3
2,3-dimethylbutane (CAS 79-29-8)	Ceiling	100 ppm	1800 mg/m3
	TWA	510 ppm	350 mg/m3
2-methylpentane (CAS 107-83-5)	Ceiling	100 ppm	1800 mg/m3
	TWA	510 ppm	350 mg/m3
3-methylpentane (CAS 96-14-0)	Ceiling	100 ppm	1800 mg/m3
	TWA	510 ppm 350 mg/m3 100 ppm	
ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
	TWA	125 ppm	435 mg/m3
methylcyclohexane (CAS 108-87-2)	TWA	100 ppm	1600 mg/m3
	TWA	400 ppm	
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)	TWA		400 mg/m3
	TWA	100 ppm	
n-heptane (CAS 142-82-5)	Ceiling		1800 mg/m3
	TWA	440 ppm	350 mg/

**US. NIOSH: Pocket Guide to Chemical Hazards Components**

Components	Type	Value	Form
n-hexane (CAS 110-54-3)	TWA	85 ppm 180 mg/m3	
paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)	STEL	50 ppm 10 mg/m3	Mist.
petrolatum (CAS 8009-03-8)	TWA STEL	5 mg/m3 10 mg/m3	Mist. Mist.
solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)	TWA TWA	5 mg/m3 400 mg/m3	Mist.
toluene (CAS 108-88-3)	STEL TWA	100 ppm 560 mg/m3 150 ppm 375 mg/m3 100 ppm	

**Biological limit values**

**ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	0.15 g/g	Sum of mandelic acid and phenylglyoxylic acid	Creatinine in urine	*
n-hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedione, without hydrolysis	Urine	*
toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*
xylene (CAS 1330-20-7)	1.5 g/g	Methylhippuric acids	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Exposure guidelines**

**US - California OELs: Skin designation**

n-hexane (CAS 110-54-3)

Can be absorbed through the skin.

toluene (CAS 108-88-3)

Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

toluene (CAS 108-88-3)

Skin designation applies.

**US ACGIH Threshold Limit Values: Skin designation**

n-hexane (CAS 110-54-3)

Can be absorbed through the skin.

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Skin protection**

Wear protective gloves such as: Nitrile. Polyvinyl chloride (PVC). Viton rubber (fluor rubber).

**Other**

Wear appropriate chemical resistant clothing.

**Respiratory protection**

If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with an organic vapor cartridge. Use a self-contained breathing apparatus in confined spaces and for emergencies. Air monitoring is needed to determine actual employee exposure levels.

Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Observe any medical surveillance requirements. When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

Physical state	Liquid.
Form	Aerosol.
Color	Dark red.
Odor	Petroleum.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	-244.7 °F (-153.7 °C) estimated
Initial boiling point and boiling range	118.4 °F (48 °C) estimated
Flash point	< 0 °F (< -17.8 °C) Closed Cup
Evaporation rate	Fast.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	1 % estimated
Flammability limit - upper (%)	8 % estimated
Vapor pressure	1453.1 hPa estimated
Vapor density	Not available.
Relative density	0.73
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	489.2 °F (254 °C) estimated
Decomposition temperature	Not available.
Viscosity (kinematic)	Not available.
Percent volatile	86.4 % estimated

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials.
Incompatible materials	Strong acids. Strong oxidizing agents. Halogens.
Hazardous decomposition products	Carbon oxides.

## 11. Toxicological information

### Information on likely routes of exposure

Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. Headache. Nausea, vomiting. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.

Ingestion	May cause damage to organs through prolonged or repeated exposure by ingestion. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Edema. Jaundice.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways.

Components	Species	Test Results
<b>3-methylhexane (CAS 589-34-4)</b>		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	> 2000 mg/kg
<b>ethylbenzene (CAS 100-41-4)</b>		
<u>Acute</u>		
Inhalation		
LC50	Rat	17.2 mg/l, 4 hours
Oral		
LD50	Rat	3500 mg/kg
<b>heptane, branched, cyclic and linear (CAS 426260-76-6)</b>		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 60 mg/l, 4 hours
Oral		
LD50	Rat	> 5000 mg/kg
<b>methylcyclohexane (CAS 108-87-2)</b>		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
<b>naphtha (petroleum), hydrotreated light (CAS 64742-49-0)</b>		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
<b>n-heptane (CAS 142-82-5)</b>		
<u>Acute</u>		
Dermal		
LD50	Rabbit	3000 mg/kg
<b>n-hexane (CAS 110-54-3)</b>		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 1300 mg/kg
Oral		
LD50	Rat	15840 mg/kg
<b>paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)</b>		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg



Components	Species	Test Results
<b>Oral</b>		
LD50	Rat	> 5000 mg/kg
petrolatum (CAS 8009-03-8)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 20 mg/l, 4 hours
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg
solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg
xylene (CAS 1330-20-7)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	4300 mg/kg

\* Estimates for product may be based on additional component data not shown.

<b>Skin corrosion/irritation</b>	Causes skin irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	Suspected of causing cancer.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

ethylbenzene (CAS 100-41-4)	2B Possibly carcinogenic to humans.
paraffin oils (petroleum), catalytic dewaxed light (CAS humans. 64742-71-8)	3 Not classifiable as to carcinogenicity to humans.
toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.
xylene (CAS 1330-20-7)	3 Not classifiable as to carcinogenicity to humans.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

<b>Reproductive toxicity</b>	Components in this product have been shown to cause birth defects and reproductive disorders in laboratory animals. Suspected of damaging fertility.
<b>Specific target organ toxicity - single exposure</b>	May cause drowsiness and dizziness.
<b>Specific target organ toxicity - repeated exposure</b>	May cause damage to organs (central nervous system, kidney, liver) through prolonged or repeated exposure by ingestion.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways. If aspirated into lungs during swallowing or vomiting, may cause chemical pneumonia, pulmonary injury or death.
<b>Chronic effects</b>	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. Ecological information

<b>Ecotoxicity</b>	Very toxic to aquatic life with long lasting effects.
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Components	Species		Test Results
2-methylpentane (CAS 107-83-5)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	EC50	Daphnia	1 - 10 mg/l, 48 hours
Fish	LC50	Fish	1 - 10 mg/l, 96 hours
ethylbenzene (CAS 100-41-4)			
<b>Aquatic</b>			
Fish	LC50	Atlantic silverside ( <i>Menidia menidia</i> )	4.4 - 5.7 mg/l, 96 hours
<i>Acute</i>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	2.1 mg/l, 48 hours
heptane, branched, cyclic and linear (CAS 426260-76-6)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	1.5 mg/l, 48 hours
methylcyclohexane (CAS 108-87-2)			
<b>Aquatic</b>			
Fish	LC50	Striped bass ( <i>Morone saxatilis</i> )	5.8 mg/l, 96 hours
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	EC50	Daphnia	1 - 10 mg/l, 48 hours
Fish	LC50	Fish	1 - 10 mg/l, 96 hours
n-heptane (CAS 142-82-5)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	1.5 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	2.1 - 2.98 mg/l, 96 hours
n-hexane (CAS 110-54-3)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	2.101 - 2.981 mg/l, 96 hours
solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)			
<b>Aquatic</b>			
Fish	LC50	Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> )	8.8 mg/l, 96 hours
			8.8 mg/l, 96 hours
<i>Acute</i>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	1.5 mg/l, 48 hours
toluene (CAS 108-88-3)			
<b>Aquatic</b>			
<i>Acute</i>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	6 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon ( <i>Oncorhynchus kisutch</i> )	5.5 mg/l, 96 hours
xylene (CAS 1330-20-7)			
<b>Aquatic</b>			
Fish	LC50	Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> )	9.54 - 19.2 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

Partition coefficient n-octanol / water (log Kow)	
2,2-dimethylbutane	3.82
2,3-dimethylbutane	3.42
2-methylpentane	3.74
3-methylpentane	3.6
ethylbenzene	3.15
methylcyclohexane	3.61
n-heptane	4.66
n-hexane	3.9
toluene	2.73
xylene	3.12 - 3.2
Bioconcentration factor (BCF)	
ethylbenzene	1
naphtha (petroleum), hydrotreated light	10 - 25000
toluene	90
xylene	23.99

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

Disposal of waste from residues / unused products If discarded, this product is considered a RCRA ignitable waste, D001. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose in accordance with all applicable regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. Transport information

#### DOT

UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

#### IATA

UN number	UN1950
UN proper shipping name	Aerosols, flammable, Limited Quantity
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Packing group	Not applicable.
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

#### IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS, Limited Quantity
Transport hazard class(es)	
Class	2

**Subsidiary risk** -  
**Packing group** Not applicable.  
**Environmental hazards**  
**Marine pollutant** No.  
**EmS** F-D, S-U  
**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

### US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance

ethylbenzene (CAS 100-41-4)

n-hexane (CAS 110-54-3)

xylene (CAS 1330-20-7)

### CERCLA Hazardous Substance List (40 CFR 302.4)

3,3-dimethylpentane (CAS 562-49-2) Listed.

ethylbenzene (CAS 100-41-4) Listed.

n-hexane (CAS 110-54-3) Listed.

toluene (CAS 108-88-3) Listed.

xylene (CAS 1330-20-7) Listed.

### CERCLA Hazardous Substances: Reportable quantity

3,3-dimethylpentane (CAS 562-49-2) 100 LBS

ethylbenzene (CAS 100-41-4) 1000 LBS

n-hexane (CAS 110-54-3) 5000 LBS

toluene (CAS 108-88-3) 1000 LBS

xylene (CAS 1330-20-7) 100 LBS

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

ethylbenzene (CAS 100-41-4)

n-hexane (CAS 110-54-3)

xylene (CAS 1330-20-7)

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

toluene (CAS 108-88-3) 6594

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

toluene (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

toluene (CAS 108-88-3) 594

**Food and Drug Administration (FDA)** Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Section 311/312** Immediate Hazard - Yes

**Hazard categories** Delayed Hazard - Yes

Fire Hazard - Yes

Pressure Hazard - Yes

Reactivity Hazard - No

SARA 302 Extremely No  
hazardous substance

#### US state regulations

##### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

ethylbenzene (CAS 100-41-4)  
liquefied petroleum gas (CAS 68476-86-8)  
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)  
n-hexane (CAS 110-54-3)  
paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)  
petrolatum (CAS 8009-03-8)  
solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)  
toluene (CAS 108-88-3)  
xylene (CAS 1330-20-7)

##### US. New Jersey Worker and Community Right-to-Know Act

2,2-dimethylbutane (CAS 75-83-2)  
2,3-dimethylbutane (CAS 79-29-8)  
2-methylpentane (CAS 107-83-5)  
3-methylhexane (CAS 589-34-4)  
ethylbenzene (CAS 100-41-4)  
methylcyclohexane (CAS 108-87-2)  
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)  
n-heptane (CAS 142-82-5)  
n-hexane (CAS 110-54-3)  
solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)  
toluene (CAS 108-88-3)  
xylene (CAS 1330-20-7)

##### US. Massachusetts RTK - Substance List

2,2-dimethylbutane (CAS 75-83-2)  
2,3-dimethylbutane (CAS 79-29-8)  
2-methylhexane (CAS 591-76-4)  
2-methylpentane (CAS 107-83-5)  
3-methylhexane (CAS 589-34-4)  
3-methylpentane (CAS 96-14-0)  
ethylbenzene (CAS 100-41-4)  
methylcyclohexane (CAS 108-87-2)  
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)  
n-heptane (CAS 142-82-5)  
n-hexane (CAS 110-54-3)  
paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)  
solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)  
toluene (CAS 108-88-3)  
xylene (CAS 1330-20-7)

##### US. Pennsylvania Worker and Community Right-to-Know Law

2,2-dimethylbutane (CAS 75-83-2)  
2,3-dimethylbutane (CAS 79-29-8)  
2-methylhexane (CAS 591-76-4)  
2-methylpentane (CAS 107-83-5)  
3,3-dimethylpentane (CAS 562-49-2)  
3-methylhexane (CAS 589-34-4)  
3-methylpentane (CAS 96-14-0)  
ethylbenzene (CAS 100-41-4)  
methylcyclohexane (CAS 108-87-2)  
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)  
n-heptane (CAS 142-82-5)  
n-hexane (CAS 110-54-3)  
paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)  
solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)  
toluene (CAS 108-88-3)  
xylene (CAS 1330-20-7)

##### US. Rhode Island RTK

ethylbenzene (CAS 100-41-4)  
methylcyclohexane (CAS 108-87-2)  
naphtha (petroleum), hydrotreated light (CAS 64742-49-0)

n-heptane (CAS 142-82-5)  
 n-hexane (CAS 110-54-3)  
 paraffin oils (petroleum), catalytic dewaxed heavy (CAS 64742-70-7)  
 petrolatum (CAS 8009-03-8)  
 solvent naphtha (petroleum), light aliph. (CAS 64742-89-8)  
 toluene (CAS 108-88-3)  
 xylene (CAS 1330-20-7)

**US. California Proposition 65**

**⚠ WARNING: Cancer and Reproductive Harm [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)**

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

benzene (CAS 71-43-2)	Listed: February 27, 1987
cumene (CAS 98-82-8)	Listed: April 6, 2010
ethylbenzene (CAS 100-41-4)	Listed: June 11, 2004
naphthalene (CAS 91-20-3)	Listed: April 19, 2002

**US - California Proposition 65 - CRT: Listed date/Developmental toxin**

benzene (CAS 71-43-2)	Listed: December 26, 1997
toluene (CAS 108-88-3)	Listed: January 1, 1991

**US - California Proposition 65 - CRT: Listed date/Male reproductive toxin**

benzene (CAS 71-43-2)	Listed: December 26, 1997
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**Volatile organic compounds (VOC) regulations**

**EPA**

**Aerosol coatings (40 CFR 59, Subpt. E)** Not regulated

**State**

**Aerosol coatings** This product is regulated as an Electrical Coating. This product is compliant for sale in all 50 states.

**Maximum incremental reactivity (MIR)** 1.253

**International Inventories**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A 'Yes' indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
 A 'No' indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

**Issue date** 6-26-2018  
**Version #** 02  
**Further information** CRC 551B  
**HMIS® ratings** Health: 2\*  
 Flammability: 4  
 Physical hazard: 1  
 Personal protection: B

NFPA ratings

Health: 2  
Flammability: 4  
Instability: 1

NFPA ratings



Disclaimer

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of our knowledge or obtained from sources believed to be accurate. Before using any product, read all warnings and directions on the label. For further clarification of any information contained on this (M)SDS consult your supervisor, a health & safety professional, or East Penn Manufacturing Company.

Revision Information

Product and Company Identification: Product and Company Identification  
Hazard(s) identification: Disposal  
Hazard(s) identification: Storage  
Composition/information on ingredients: Component information  
Handling and storage: Precautions for safe handling  
Physical & Chemical Properties: Multiple Properties  
Toxicological Information: Toxicological Data  
Other information, including date of preparation or last revision: Further information





# SAFETY DATA SHEET

## 1. Identification

Product identifier Hand Wipes

Other means of identification  
Product code Kit 04752 includes one wipe

Recommended use Cleaning hands. Skin care products.

Recommended restrictions For external use only. Keep out of reach of children.

Manufacturer/Importer/Supplier/Distributor information  
Manufactured or sold by:

Company name East Penn Manufacturing Co.  
Address 102 Deka Road  
Lyon Station, PA 19536  
United States

Telephone General Information 610-682-6361  
Customer Service 610-682-4231

Website [www.dekabatteries.com](http://www.dekabatteries.com)

E-mail Not available.

Emergency phone number 24-Hour Emergency 800-424-9300 (US)  
(CHEMTREC) 703-527-3887 (International)

## 2. Hazard(s) identification

Classification of substance or mixture  
GHS: Not classified.

### GHS label elements, including precautionary statements

Pictogram(s): Not applicable.

Signal word: Not applicable.

Hazard statement(s): Not applicable.

Precautionary statement(s): Not applicable.

Other hazards which do not result in classification Direct contact may cause eye irritation. Repeated or prolonged contact may cause skin irritation and sensitization.

## 3. Composition/information on ingredients

Substance name	CAS No.	EC No.	Concentration (%)
Water	7732-18-5	231-791-2	97.46
Ethyl alcohol	64-17-5	200-578-6	0.5
Nonionic surfactant	Trade secret	Trade secret	0.5
Aloe extract	85507-69-3	287-390-8	0.5
Dimethyl oxazolidine	51200-87-4	257-048-2	0.28
DMDM hydantoin	6440-58-0	229-222-8	0.2
d-Limonene	5989-27-5	227-813-5	0.1
Allantoin	97-59-6	202-592-8	0.1
Isopropyl alcohol	67-63-0	200-661-7	0.1
Dimethicone	9006-65-9	618-433-4	0.05
Inositol	87-89-8	201-781-2	0.05
Methionine	63-68-3	200-562-9	0.05
Vitamins A,B,C,E,H	Mixture	Mixture	0.05

Wheat germ extract	Not available	Not available	0.05
Propylene glycol	57-55-6	200-338-0	0.01

Remark: The above ingredient content does not include the weight of nonwoven fabric.

#### 4. First-aid measures

<b>Inhalation</b>	Not applicable to products in purchased form. If dust/vapor is inhaled, remove to fresh air. If breathing discomfort occurs, seek medical attention.
<b>Skin contact</b>	This product is intended for use on the skin. Seek medical advice if redness, rash or itching occurs.
<b>Eye contact</b>	Immediately flush eyes with plenty of water for several minutes (remove contact lenses if easily possible), occasionally lifting the upper and lower eyelids. If irritation persists, seek medical attention.
<b>Ingestion</b>	Unlikely exposure route. If swallowed accidentally, call a doctor/physician immediately.
<b>Most important symptoms/effects, acute and delayed</b>	
May cause eye irritation. Repeated or prolonged contact may cause skin irritation and sensitization.	
Note to physicians: Treat symptomatically.	

#### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog or spray, dry chemical, foam, CO <sub>2</sub> . Use any means suitable for extinguishing surrounding fire.
<b>Specific hazards arising from the chemical</b>	Water-based products are not flammable or combustible. No unusual fire or explosion hazards are anticipated. Fire will decompose and produce irritation vapors and/or toxic gases.
<b>Special protective actions for fire-fighters</b>	Firefighters should wear full protective clothing and positive pressure self-contained breathing apparatus (SCBA). Use firefighting procedures suitable for surrounding area. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

#### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Isolate leakage areas and restrict access. Remove all ignition sources. Enhance ventilation. Wear appropriate protective equipment if necessary. Avoid eye contact. Avoid prolonged skin contact.
<b>Environmental precautions</b>	Prevent entry into drains or sewers.
<b>Methods and material for containment and cleaning up</b>	Stop leak if without risk. Move containers from spill area. For finished products or nonwoven fabric: Pick up and place in a suitable container for disposal. For the liquid part: Soak up with inert absorbent materials, e.g. sand or earth. Sweep up and shovel into suitable containers for disposal. Then clean spill site with water.

#### 7. Handling and storage

<b>Precautions for safe handling</b>	Ensure good ventilation/exhaustion at the workplace. Avoid dust/vapor generation and accumulation. Avoid high temperature and sunlight. Avoid open flames or ignition sources. Keep away from incompatibles. Normal measures for preventive fire protection. Use personal protective equipment. Avoid eye and skin contact. Avoid breathing dust/vapor. Products should be produced according to good manufacturing practice. Do not eat, drink or smoke in working areas. Wash hands thoroughly before breaks and after handling. Discontinue use if any discomfort occurs. Never flush these wipes into toilets. Discard in a solid waste bin.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool, dry and clean place. Keep container tightly closed when not in use. Protect from sunlight. Avoid high temperature. Keep away from heat and ignition sources. Protect against physical damage. Keep away from incompatible materials. Keep out of reach of children.

#### 8. Exposure controls/personal protection

##### Control Parameters

##### Occupational exposure limits

Ethyl alcohol

UK: TWA 1920mg/m<sup>3</sup> (1000ppm)

Sweden: LLV 1000mg/m<sup>3</sup>(500ppm); STV 1900mg/m<sup>3</sup> (1000ppm)

Germany MAK: TWA 960mg/m<sup>3</sup> (500ppm)

Czech Republic: TWA 1000mg/m<sup>3</sup>; STEL 3000mg/m<sup>3</sup>

Slovak Republic: TWA 960mg/m<sup>3</sup> (500ppm); STEL 1920mg/m<sup>3</sup> (1000ppm)

#### d-Limonene

Denmark: TLV 25ppm

Finland: TWA 140mg/m<sup>3</sup> (25ppm); STEL 280mg/m<sup>3</sup> (50ppm)

Germany MAK: TWA 28mg/m<sup>3</sup> (5ppm)

Switzerland: TWA 110mg/m<sup>3</sup> (20ppm); STEL 220mg/m<sup>3</sup> (40ppm)

#### Propylene glycol

UK: particulates: TWA 10mg/m<sup>3</sup>

total vapour particulates: TWA 474mg/m<sup>3</sup> (150ppm)

**Biological limit values** No data available.

**Appropriate engineering controls** Use local exhaust ventilation, or other engineering controls to keep airborne concentrations below the exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

**Individual protection measures, such as personal protective equipment (PPE)**

**Eye/face protection** Wear safety glasses or goggles if splash potential exists. Not required under normal use.

**Skin protection** Not required under normal use.

**Respiratory protection** Use an approved respirator if exposure limits are exceeded or if irritation or other symptom are experienced. None required for normal use.

**Thermal hazards** Not applicable

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## 9. Physical and chemical properties

### Appearance

Physical state	Solid (nonwoven wipe) saturated with liquid.
Color	Colorless, clear liquid
Odor	Lemon flavor
pH	Not available.
Melting point/freezing point	0 °C (liquid)
Initial boiling point and boiling range	100°C liquid
Flash point	Not applicable
Flammability	Non-flammable solid.
Vapor pressure	2.3kPa at 20°C (liquid)
Vapor density	<1 (liquid)
Relative density	<1 (liquid)
Solubility (water)	Miscible with water (liquid);insoluble in water (fabric)
Partition coefficient	Log P <sub>ow</sub> =-.31 ethyl alcohol
Auto-ignition temperature	Not available
Decomposition temperature	Not available.

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## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.

Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong acids. Strong oxidizing agents. Halogens.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

**Acute toxicity** This product is practically non-toxic.

Component	LD <sub>50</sub> Oral	LD <sub>50</sub> Dermal	LC <sub>50</sub> Inhalation
Ethyl alcohol	6200mg/kg (rat)	6300mg/kg (rabbit)	124.7mg/L/4h (rat) 39mg/L/4h (mouse)

### Skin corrosion/irritation

Not corrosive to skin. This product is intended for use on the skin and no irritation is expected. Repeated or prolonged contact may cause skin irritation.

Ethyl alcohol:	Draize test, rabbit, skin: 20 mg/24H Open irritation test, rabbit, skin:400mg	Moderate Mild Not irritating
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### Serious eye damage/irritation

Product is not an eye irritant. Direct contact may cause eye irritation.

Ethyl alcohol:	Draize test, rabbit, eye: 500 mg Draize test, rabbit, eye:500mg/24H Rinsed with water, rabbit, eye:100 mg/4S	Severe Mild Moderate
d-Limonene	Eye irritation (IUCLID 2000)	Irritating

### Respiratory or skin sensitization

This mixture as a whole is not classified as sensitizing, but containing traces (between 0.1 and 1.0%) of skin sensitizers. Repeated or prolonged contact may cause skin sensitization.

### Germ cell mutagenicity

This product is non-mutagenic.

### Carcinogenicity

None of the components are listed as a carcinogen by IARC.

Ethyl alcohol: ACGIH- Group A3 (Confirmed animal carcinogen with unknown relevance to humans)

d-Limonene: IARC-Group 3 (Unclassifiable as to carcinogenicity to humans)

### Reproductive toxicity

This product is not expected to be toxic for reproduction.

### STOT-single exposure

This product is not classified as a specific target organ toxicant, single exposure.

### STOT-repeated exposure

This product is not classified as a specific target organ toxicant, repeated exposure.

### Aspiration hazard

Not an aspiration hazard.

## 12. Ecological information

**Toxicity** This product is not classified as hazardous to the environment.

Component	Ecotoxicity
Ethyl alcohol	96h LC <sub>50</sub> (Fish:Rainbow trout): 11200mg/L 96h LC <sub>50</sub> (Fish:Fathead minnow): >100mg/L 48h LC <sub>50</sub> (Crustacea: Daphnia magna): 9268-14221mg/L @24°C 4d EC <sub>50</sub> (Algae: Chlorella vulgaris): 1000mg/L

	10d NOEC (Crustacea: Ceriodaphnia): 9.6mg/L
d-Limonene	96h LC <sub>50</sub> (Fish: Fathead minnow): 0.619-0.796mg/L 96h LC <sub>50</sub> (Fish: Rainbow trout): 35mg/L 48h EC <sub>50</sub> (Crustacea: Daphnia magna): 0.42mg/L

#### Persistence and degradability

In this product, the liquid is readily biodegradable and not persistent in the environment. But the nonwoven fabric is not readily biodegradable.

#### Bioaccumulative potential

This product is not expected to bioaccumulate.

Partition coefficient n-octanol / water (log Pow)

Component	Log P <sub>ow</sub>
Ethyl alcohol	-0.31
Propylene glycol	-0.92

#### Mobility in soil

In this product, the liquid has high mobility in soil. The non-woven fabric is immobile in soil and remains on the soil surface.

#### Other adverse effects

This product is not hazardous for water.

### 13. Disposal considerations

#### Disposal methods

Small quantities can be disposed of in household waste. Large quantities should be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Nonwoven wet wipes should not be flushed down the toilet. Do not dispose directly into drains, sewers, and other waterways.

### 14. Transport information

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es)

ADR/RID: Not regulated

IMO: Not regulated

ICAO/IATA: Not regulated

Packing group **Not applicable.**

Environmental hazards: Marine pollutant/Environmentally hazardous: No

Special precautions for user: No special precautions

Transport in bulk according to IMO instruments: Not applicable

### 15. Regulatory information

Safety, health and environmental regulations specific for the product in question

#### International regulations

##### Montreal Protocol

This product does not contain substances that produce the depletion of the Ozone Layer.

##### Rotterdam Convention

This product is not subjected to the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.

##### Stockholm Convention

This product does not contain Persistent Organic Pollutants.

##### European Union (EU)

Regulation (EC) No 1907/2006 (REACH) Annex XIV- List of substances subject to authorization

-None of the components in this product are listed.

**Annex XVII- Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

- None of the components in this product are listed.

**Regulation (EU) No 850/2004 on persistent organic pollutants**

- None of the components in this product are listed.

**Regulation (EU) No 649/2012 concerning the export and import of dangerous chemicals, Annex I**

- None of the components in this product are listed.

**Regulation (EU) No 1005/2009 on substances that deplete the ozone layer, Annex I & II**

- None of the components in this product are listed.

**Water hazard class (Germany)**

**WGK (self-classification):**Non-hazardous to waters (nwg)

**United States**

**CERCLA hazardous substances and corresponding RQs**

-None of the chemicals in this product have an RQ.

**California Proposition 65**

-This product contains no chemicals known to the State of California to cancer or reproductive toxicity.

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**16. Other information, including date of preparation or last revision**

Issue date 05/18/2018

Revision date 05/18/2018

**Abbreviations and acronyms**

<b>GHS</b>	Globally Harmonized System of Classification and Labeling of Chemicals
<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>IARC</b>	International Agency for Research on Cancer
<b>STOT</b>	Specific Target Organ Toxicity
<b>ADR</b>	European Agreement concerning the International Carriage of Dangerous Goods by Road
<b>RID</b>	Regulations concerning the International Transport of Dangerous Goods by Rail
<b>IMO</b>	International Maritime Organization
<b>ICAO</b>	International Civil Aviation Organization
<b>IATA</b>	International Air Transport Association
<b>REACH</b>	Registration, Evaluation, Authorization and Restriction of Chemicals
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation, and Liability Act

**Key literature references and sources for data**

- [1] International Chemical Safety Cards (ICSC) 0044-Ethanol (anhydrous)
- [2] International Chemical Safety Cards (ICSC) 0918-D-Limonene

**Disclaimer**

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