

Eye contact:	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 advice/attention.
Skin contact:	Wash off immediately with plenty of water for at least 15 minutes.
Ingestion:	If swallowed, DO NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
<u>Most important symptoms and effects, both acute and delayed:</u>	May be harmful in contact with skin. Causes mild skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness.
<u>Indication of any immediate medical attention and special treatment available:</u>	Treat symptomatically.
<u>General information:</u>	Provide this SDS to medical personnel for treatment.

SECTION 5. FIRE-FIGHTING MEASURES

<u>Suitable extinguishing media:</u>	Extinguishing media include dry chemical, alcohol foam, and carbon dioxide. Do not use direct stream of water. Water may be used to keep fire-exposed containers cool.
<u>Unsuitable extinguishing media:</u>	Do not use direct stream of water.
<u>Specific hazards:</u>	Pressurized container: Do not pierce or burn, even after use. Extremely flammable aerosol. Pressure build-up due to heat exposure may cause containers to rupture. Use water spray to keep containers cool.
<u>Advice for firefighters:</u>	Firefighters should wear full protective gear, including helmet. Use supplied-air breathing equipment for enclosed or confined space or as otherwise needed.

SECTION 6. ACCIDENTAL RELEASE MEASURES

<u>Personal precautions, protective equipment and emergency procedures:</u>	In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. Stop leak if you can do it without risk. Ventilate the area. Keep away from ignition sources. Wear protective equipment. Keep unprotected persons away.
<u>Environmental precautions:</u>	Prevent entry into sewers, waterways or confined areas by diking or impounding. Dike far ahead of spill for later recovery and disposal. Advise authorities if the product has entered or may enter sewers, watercourses, or extensive land areas.
<u>Methods for containment and cleaning up</u>	Methods for containment: If possible, turn leaking containers so that gas escapes rather than liquid. Allow substance to evaporate. Methods for cleaning up: Keep in suitable, closed containers for disposal. Do not direct water at spill or source of leak.

SECTION 7. HANDLING AND STORAGE

<u>Precautions for safe handling:</u>	Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Wear eye/face protection. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Use only outdoors or in a well-ventilated area. 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.
<u>Conditions for safe storage, including any incompatibilities:</u>	Storage: Store locked up. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. Incompatible Products: Strong acids. Strong oxidizing agents. Strong bases, Select amines, and Halogens.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Workplace exposure limits:</u>	<u>Chemical name</u>	<u>Exposure limit and source</u>
	Propane	1000 ppm, TWA, OSHA PEL
	Asphalt (at ambient temperature)	Short-term value = 10 mg/m ³ Long-term value = 5 mg/m ³
	Solvent naphtha (petroleum), light arom.*	Not available
	Acetone	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm

Pentane	Long-term value = 1800 mg/m ³ , 600 ppm
Butane	Short-term value = 1450 mg/m ³ , 600 ppm Long-term value = 1810 mg/m ³ , 750 ppm
Petroleum distillates, hydrotreated heavy naphthenic*	Not available
1,2,4-trimethylbenzene	Long-term value: 125 mg/m ³ , 25 ppm
Naphtha (petroleum), hydrotreated light*	1400 mg/m ³ , 8h, ACGIH
Xylene	TWA: 100 ppm (OSHA PEL)
Cumene	Short-term value: 250 mg/m ³ , 50 ppm Long-term value: 125 mg/m ³ , 25 ppm

Exposure controls

Engineering controls: Apply technical measures to comply with the occupational exposure limits.

Ventilation: Use in a well-ventilated area. See Engineering Controls.

Personal hygiene: Wash skin thoroughly after contact, before breaks and meals and at the end of the work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

Eye protection: Chemical splash goggles or face shield in compliance with OSHA regulations are advised when eye contact may occur.

Hand protection: Wear lined non-permeable rubber gloves.

Respiratory protection: Use with adequate ventilation. Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure. In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH/MSHA-approved air-supplied respirator is advised in absence of proper environmental control.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance / odor:	Thick black liquid with aromatic odor	Upper flammability limit:	Not available
		Lower flammability limit:	Not available
Physical state:	Liquid spray, aerosol	Vapor pressure:	Not available
Odor threshold:	Not available	Vapor density:	Not available
pH:	Not available		
Melting / freezing point:	Not available	Relative density:	0.84 g/cm ³ (concentrate only)
Initial boiling point and boiling range:	Not available	Solubility in water:	Insoluble
Flash point:	Not available	Partition coefficient (n-octanol/water):	Not available
Evaporation rate:	Not available	Autoignition temperature:	Not available
		Decomposition temperature:	Not available
Flammability (solid, gas):	Extremely flammable aerosol	Viscosity:	>20.5 cSt @ 40°C

SECTION 10. STABILITY AND REACTIVITY

Reactivity:	Not reactive under normal conditions.
Chemical stability:	Stable under recommended conditions.
Possibility of hazardous reactions:	Hazardous reactions are not expected to occur.
Conditions and materials to avoid:	Avoid direct sunlight, heat, sparks, open flames, welding arcs or other high-temperature sources which induce thermal decomposition, strong oxidizers such as liquid chlorine, hydrogen peroxide and oxygen, strong acids such as nitric and sulfuric acids, and alkalis.
Hazardous decomposition products:	Carbon monoxide, carbon dioxide, smoke and irritating vapors as products of incomplete combustion.

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Eye contact:	Causes serious eye irritation.
Skin contact:	May be harmful in contact with skin. Causes mild skin irritation.
Inhalation:	Do not inhale.
Ingestion:	Do not ingest.

<u>Component information:</u>	<u>Components</u>	<u>LD₅₀</u>	<u>LC₅₀</u>
	Propane	Not available	Not available
	Asphalt (at ambient temperature)	>5000 mg/kg (oral, rat)	Not available
	Solvent naphtha (petroleum), light arom.*	>6800 mg/kg (oral, rat)	Not available
	Acetone	5800 mg/kg (oral, rat)	Not available
	Pentane	Not available	Not available
	Butane	Not available	658 mg/l/4h (inhalation, rat)
	Petroleum distillates, hydrotreated heavy naphthenic*	>5000 mg/kg (oral, rat)	Not available
	1,2,4-trimethylbenzene	5000 mg/kg (oral, rat)	Not available
	Naphtha (petroleum), hydrotreated light*	Not available	Not available
	Xylene	4300 mg/kg (oral, rat)	47635 mg/l/4h (rat)
	Cumene	1400 mg/kg (oral, rat)	24.7 mg/l/4h (inhalation, mouse)

Information on physical, chemical and toxicological effects

Symptoms: See Section 4 of this SDS for symptoms.

Delayed and immediate effects, and chronic effects, from short and long-terms exposure

Effects: **Germ cell mutagenicity:** Reason for no classification: conclusive but not sufficient for classification.
STOT (single exposure): May cause respiratory irritation. May cause drowsiness or dizziness.

Carcinogenicity: This product is not used under the circumstances for which the carcinogen classification for petroleum asphalt applies. Occupational exposures to straight-run bitumens and their emissions during road paving are possibly carcinogenic to humans.

Petroleum Asphalt (CAS # 8052-42-4): IARC Group 2B; OSHA carcinogen

Xylene (CAS # 1330-20-7): IARC Group 3

Cumene (CAS # 98-82-8): IARC Group 2B; NTP Reasonably anticipated to be a human carcinogen; OSHA carcinogen.

Numerical measures of toxicity: Not determined

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic life with long lasting effects.

<u>Component information:</u>	<u>Components</u>	<u>LEIC₅₀</u>
	Propane	Not available
	Asphalt (at ambient temperature)	Not available
	Solvent naphtha (petroleum), light arom.*	6.14 mg/l/48h (daphnia magna)
	Acetone	10294-17704 mg/l/48h (daphnia magna)
	Pentane	9.74 mg/l/48h (daphnia magna)
	Butane	Not available
	Petroleum distillates, hydrotreated heavy naphthenic*	1000 mg/l/48h (Daphnia magna)
	1,2,4-trimethylbenzene	6.14 mg/l/48h (daphnia magna)
	Naphtha (petroleum), hydrotreated light*	2.6 mg/l/96h (Chaetogammarus marinus)
	Xylene	3.82 mg/l/48h (daphnia magna)
	Cumene	0.6 mg/l/48h (daphnia magna)

Persistence and degradability: Not determined

Bioaccumulative potential: Not determined

Mobility in soil: Not available

Other adverse effects: Not determined

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Consult national or regional authorities for proper disposal and reporting procedures.

SECTION 14. TRANSPORTATION INFORMATION

Dangerous goods descriptions may not reflect package size, quantity, end-use or region-specific exceptions that can be applied to shipments. Consult shipping documents for material-specific descriptions.

Hazard Packing

	Proper Shipping Name:	UN Number:	Class:	Group:	Remarks:
U.S. D.O.T.	Aerosols, flammable	UN1950	2.1	None	Refer to Code of Federal Regulations, Title 49 (49 CFR) for additional information on provisions, packaging, and Limited Quantity exceptions.
ADR/RID	Aerosols, flammable, Environmentally Hazardous	UN1950	2.1	None	Tunnel Restriction D
IMDG	Aerosols (Pentanes), Marine Pollutant	UN1950	2.1	None	None
IATA	Aerosols, flammable	UN1950	2.1	None	None

SECTION 15. REGULATORY INFORMATION**U.S. Federal Regulations**

SARA Section 302 Extremely Hazardous Substances: This product contains greater than 1.0% of the following chemical(s) on the SARA Extremely Hazardous Substances List:
None

SARA Section 304 CERCLA Hazardous Substances: Release of the following chemical(s) at quantities equal to or greater than the reportable quantities (RQ), is subject to reporting to the National Response Center under CERCLA:
Acetone (CAS # 67-64-1), RQ=5000 lbs.; Xylene (CAS # 1330-20-7), RQ=100 lbs.; Cumene (CAS # 98-82-6), RQ=5000 lbs.

SARA Section 313 Toxic Chemicals: This product contains the following chemical(s) listed in Section 313 at or above the de minimis concentrations:
1,2,4-Trimethylbenzene (CAS #95-63-6) present at 4.4% max.

TSCA Inventory: All components of this material are on the U.S. TSCA Inventory.

U.S. State Regulations

California Proposition 65 Status: This product does not contain chemical(s) known to the State of California to cause birth defects or other reproductive harm.

California Proposition 65 Listed Components: Cumene (CAS # 98-82-8)

International Regulations

Canada: This product has been classified in accordance with the hazard criteria of WHMIS 2015 and the SDS contains all of the information required by those regulations.

Japan MITI: Not available

Australia: Not available

Switzerland: Not available

SECTION 16. OTHER INFORMATION

Sections Revised: Sections 2, 3, 4, 8, 11, 12 and 15.

Revision Date: 9/1/2016

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*** END OF SDS ***