SAFETY DATA SHEET

1. Identification

Product identifier Company information	BIG SLICK CONTINENTAL RESEARCH CORPORATION PO Box 15204 St. Louis, MO 63110	
Company phone	800-325-4869	
Emergency telephone US	888-255-3924 (CHEM-TEL)	
Version #	01	
Recommended use	COATING	
Recommended restrictions	None known.	
2. Hazard(s) identification		
Physical hazards	Flammable aerosols	Category 1
Health hazards	Skin corrosion/irritation	Category 2
	Germ cell mutagenicity	Category 1B
	Carcinogenicity	Category 1B
	Reproductive toxicity (fertility)	Category 2
	Specific target organ toxicity, repeated exposure	Category 2

	Germ cell mutagenicity	Category 1B
	Carcinogenicity	Category 1B
	Reproductive toxicity (fertility)	Category 2
	Specific target organ toxicity, repeated exposure	Category 2
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	

OSHA defined hazards

Label elements

Signal word	Danger
Hazard statement	Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. May cause genetic defects. May cause cancer. Suspected of damaging fertility. May cause damage to organs through prolonged or repeated exposure. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	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 gas. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If exposed or concerned: Get medical advice/attention. Specific treatment (see this label). Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.
Storage	Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

None known.

97.2% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 82.22% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Butane		106-97-8	20 - 40
Naphtha (petroleum), hydrotreated light		64742-49-0	20 - 40
n-Hexane		110-54-3	10 - 20
Propane		74-98-6	10 - 20
Solvent Naphtha (Petroleum), Light Aliphatic		64742-89-8	10 - 20
Polydimethylsiloxane		63148-62-9	1 - 2.5
Cyclohexane		110-82-7	0.1 - 1
n-Heptane		142-82-5	0.1 - 1
Octamethylcyclotetrasiloxane		556-67-2	0.1 - 1
Octane		111-65-9	0.1 - 1
Other components below reportable levels	S		1 - 2.5

*Designates that a 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 develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness or dizziness. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). 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	
Suitable extinguishing media	Powder. Foam. Carbon dioxide (CO2).
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire.

Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.
General fire hazards	Extremely flammable aerosol.

6. Accidental release measures

0. Accidental release meas	
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. Wear appropriate protective equipment and clothing during clean-up. Do not breathe gas. 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 spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.
Environmental precautions	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.
7. Handling and storage	
Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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. All equipment used when handling the product must be grounded. Do not re-use empty containers. Do not breathe gas. Avoid contact with eyes, skin, and clothing. Use only in well-ventilated areas. Should be handled in closed systems, if possible. Pregnant or breastfeeding women must not handle this product. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Level 3 Aerosol.
	Store locked up. 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. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Level 3 Aerosol.

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	Value	
Cyclohexane (CAS 110-82-7)	PEL	1050 mg/m3	
		300 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	
Octane (CAS 111-65-9)	PEL	2350 mg/m3	
		500 ppm	
Propane (CAS 74-98-6)	PEL	1800 mg/m3	
,		1000 ppm	
US. ACGIH Threshold Limit Values	8		
Components	Туре	Value	
Butane (CAS 106-97-8)	STEL	1000 ppm	
Cyclohexane (CAS	TWA	100 ppm	
110-82-7)			
n-Heptane (CAS 142-82-5)	STEL	500 ppm	
	TWA	400 ppm	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
Octane (CAS 111-65-9)	TWA	300 ppm	
US. NIOSH: Pocket Guide to Chem	nical Hazards		
Components	Туре	Value	
Butane (CAS 106-97-8)	TWA	1900 mg/m3	

Introlsshould be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.lividual protection measures, such as personal protective equipment Eye/face protectionWear safety glasses with side shields (or goggles).Hand protectionWear appropriate chemical resistant gloves.Skin protectionWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Skin protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.Thermal hazardsWear appropriate thermal protective clothing, when necessary.when using, do not eat, drink or smoke. Always observe good personal hygiene measures, such			Туре		١	/alue
110-82-7) 300 ppm n-Heptane (CAS 142-82-5) Ceiling 1800 mg/m3 TWA 350 ppm n-Hexane (CAS 110-54-3) TWA 1800 mg/m3 Octane (CAS 111-65-9) Ceiling 1800 mg/m3 Octane (CAS 111-65-9) Ceiling 1800 mg/m3 TWA 350 ppm 385 ppm Propane (CAS 74-98-6) TWA 1800 mg/m3 ACGIH Biological Exposure Indices TWA 1800 mg/m3 ACGIH Biological Exposure Indices Determinant Specimen Sampling Time n-Hexane (CAS 110-54-3) 0.4 mg/l 2.5-Hexanedio n, without hydrolysis * * * - For sampling details, please see the source document. postreguidelines Urine n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Opprinte engineering ttrols Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to condition. If applicable, use process enclosures, local exhaust ventilatio or orter engineering controls to maintain airborne levels to an acceptable level. Exp wash facilities and emergency shower must be available when handling this product. Ividual p					8	00 ppm
n-Heptane (CAS 142-82-5) Ceiling 1800 mg/m3 n-Heptane (CAS 110-54-3) TWA 350 mg/m3 n-Hexane (CAS 110-54-3) TWA 1800 mg/m3 Octane (CAS 111-65-9) Ceiling 1800 mg/m3 Octane (CAS 111-65-9) Ceiling 1800 mg/m3 TWA 350 mg/m3 385 ppm TWA 350 mg/m3 385 ppm Propane (CAS 74-98-6) TWA 1800 mg/m3 TWA 350 mg/m3 1000 ppm Hogical limit values ACCHI Biological Exposure Indices Components Components Value Determinant Specimen Socold Biological Exposure Indices Components Value Urine n-Hexane (CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio n, without Vine Specimen Socold Biological Exposure Indices Components Value Urine Specimen Socold CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio n, without Value Urine Socold Biological Exposure Indices Components Value Urine N=Hexane (CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio n, without Urine N=Hexane (CAS 110-54-3) Can be absorbed through the skin. Us -Californa Casi Ito-54-3 Oro deneral ventilation (typically 10 air c			TWA		1	050 mg/m3
n-Heptane (CAS 142-82-5) Ceiling 1800 mg/m3 440 ppm TWA 350 mg/m3 85 ppm n-Hexane (CAS 110-54-3) TWA 1800 mg/m3 Octane (CAS 111-55-9) Ceiling 1800 mg/m3 385 ppm TWA 350 mg/m3 75 ppm TWA 350 mg/m3 76 ppm TWA 350 mg/m3 7000 ppm Frepane (CAS 110-54-3) TWA 18000 mg/m3 1000 ppm Frepane (CAS 110-54-3) 0.4 mg/l n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACCIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACCIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACCIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACCIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACCIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACCIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACCIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACCIH Threshold Limit Save not been established, maintain airborne levels below recommended exposure limits exposure limits have not been established, maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels below recommended exposure limits. exposure lin	110-82-7)				3	00 ppm
n-Hexane (CAS 110-54-3) TWA 350 mg/m3 Octane (CAS 111-56-9) Ceiling 1800 mg/m3 Octane (CAS 111-65-9) Ceiling 1800 mg/m3 TWA 360 ppm Octane (CAS 111-65-9) Ceiling 1800 mg/m3 TWA 360 ppm TWA 360 ppm Octane (CAS 111-65-9) Ceiling 1800 mg/m3 TWA 360 mg/m3 365 ppm TWA 360 mg/m3 365 ppm Propane (CAS 74-98-6) TWA 1800 mg/m3 Components Value Determinant Specimen Soppon 1000 ppm 1000 ppm Volce Determinant Specimen Sampling Time n-Hexane (CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio " vs For sampling details, please see the source document. Socgraditionia * * Vs California OELs: Skin designation - * * n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation - n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Us AcGIH Threshold Limit Values: Skin designation - n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Us AcGIH Threshold Limit Values > <td>n-Heptane (CAS 142-82-5)</td> <td></td> <td>Ceilin</td> <td>g</td> <td></td> <td></td>	n-Heptane (CAS 142-82-5)		Ceilin	g		
n-Hexane (CAS 110-54-3) TWA 180 mg/m3 50 ppm Octane (CAS 111-65-9) Ceiling 1800 mg/m3 385 ppm TWA 380 og/m3 75 ppm Propane (CAS 74-98-6) TWA 1800 mg/m3 1000 ppm Hogical limit values ACGH Biological Exposure Indices Components Value Determinant Specime Sampling Time n-Hexane (CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio n, without hydrolysis * - For sampling details, please see the source document. Source guidelines US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Usideration wear appropriate chemical resistant gloves. Skin protection Wear appropriate chemical resistant gloves. Skin protection Other Wear appropriate chemical resistant gloves. Skin protection Thermal hazards Wear appropriate hermal protective colining, when necessary. Thermal hazards Wear appropriate thermal protective colining, when necessary. Thermal hazards Wear appropriate hermal protective colining, when necessary.				•		-
n-Hexane (CAS 110-54-3) TWA 180 mg/m3 50 ppm Octane (CAS 111-65-9) Ceiling 1800 mg/m3 385 ppm TWA 350 mg/m3 385 ppm TWA 3650 mg/m3 396 ppm TWA 3050 mg/m3 397 ppm Propane (CAS 74-98-6) TWA 1800 mg/m3 1000 ppm Notice Components Value Determinant Specimen Specimen Specimen Specimen Specimen (CAS 110-54-3) 0.4 mg/ n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation at the shields (or gogles). Hand protection Wear appropriate chemical resistant gloves. Skin protection Mear appropriate chemical resistant gloves. Skin protection Keep intotex Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Skin protection therein protection desin threshole level			TWA		3	50 mg/m3
Octane (CAS 111-65-9) Ceiling 1800 mg/m3 385 ppm TWA 350 mg/m3 385 ppm Propane (CAS 74-98-6) TWA 1800 mg/m3 1000 ppm Iogical limit values ACGIH Biological Exposure Indices 50 pm/m3 1000 ppm ACGIH Biological Exposure Indices Determinant Specimen Sampling Time n-Hexane (CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio n, without hydrolysis * * * - For sampling details, please see the source document. * * * Dosore guidelines Us - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. propriate engineering ttrols 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 ventilatio or other engineering controls to maintain airborne levels below recommended exposure limits avosure limits have not been established, maintain airborne levels below recommended exposure limits and protection Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Skin protection Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Skin protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. <td< td=""><td></td><td></td><td></td><td></td><td>8</td><td>5 ppm</td></td<>					8	5 ppm
Octane (CAS 111-65-9) Ceiling 1800 mg/m3 385 pm TWA 350 mg/m3 350 mg/m3 75 ppm Propane (CAS 74-98-6) TWA 1800 mg/m3 1000 ppm Nogical limit values ACGH Biological Exposure Indices Components Value Determinant Specimen Sampling Time n-Hexane (CAS 110-54-3) 0.4 mg/l 2,5-Hexanelio n, without hydrolysis * * * * - For sampling details, please see the source document. 0.4 mg/l 2,5-Hexanelio n, without hydrolysis * * VS - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. VS ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Us absorbed through the skin. VS ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Us absorbed through the skin. VS ACGIH Toreshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Us absorbed through the skin. Vidual protection measures, such as personal protective equipment Eyeface protection Wear appropriate chemical resistant douts. Stin protection Mear appropri	n-Hexane (CAS 110-54-3)		TWA		1	80 mg/m3
TWA 385 ppm Propane (CAS 74-98-6) TWA 1800 mg/m3 1000 ppm Hogical limit values 1800 mg/m3 1000 ppm ACGIH Biological Exposure Indices Determinant Specimen Sampling Time ACGIH Biological Exposure Indices 0.4 mg/l 2.5-Hexanedio n, without * n-Hexane (CAS 110-54-3) 0.4 mg/l 2.5-Hexanedio n, without * * VB - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. * US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Can be absorbed through the skin. US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Cool 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 ventiliatio or other engineering controls to maintain airborne levels below recommended exposure limits exposure limits have not been established, maintain airborne levels to an acceptable level. Eve wash facilities and emergency shower must be available when handling this product. Ividual protection Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended exposure wash facilities and emergency shower. Skin protection Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended exposure air.supplied respirator. Respiratory protection </td <td></td> <td></td> <td></td> <td></td> <td>5</td> <td>i0 ppm</td>					5	i0 ppm
TWA 350 mg/m3 75 ppm Propane (CAS 74-98-6) TWA 1800 mg/m3 1000 ppm Nogical limit values ACGIH Biological Exposure Indices Section Components Value Determinant Specimen Sampling Time n-Hexane (CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio n, without hydrolysis Urine * * - For sampling details, please see the source document. * * * DS - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US VS - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US VG ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ror other engineering ttrols 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. exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. Vidual protection Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Skin protection Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Skin protection <td< td=""><td>Octane (CAS 111-65-9)</td><td></td><td>Ceilin</td><td>g</td><td></td><td></td></td<>	Octane (CAS 111-65-9)		Ceilin	g		
Propane (CAS 74-98-6) TWA 75 ppm 1800 mg/m3 1000 ppm ACGIH Biological Exposure Indices Components Value Determinant Specimen Sampling Time ACGIH Biological Exposure Indices Value Determinant Specimen Sampling Time n-Hexane (CAS 110-54-3) 0.4 mg/l 2.6-Hexanedio n, without hydrolysis Vine * * - For sampling details, please see the source document. - * * Dos - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. VS ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Order engineering throls 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 to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. Vidual protection measures, such as personal protective equipment Eye/face protection Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Skin protection Mear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Skin protection Mear appropriate chemical resistant clothing.						
Propane (CAS 74-98-6) TWA 1800 mg/m3 1000 ppm Iogical limit values ACGIH Biological Exposure Indices Determinant Specime Sampling Time ACGIH Biological Exposure Indices Value Determinant Specime Sampling Time n-Hexane (CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio n, without Urine * n-Hexane (CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio n, without Urine * vs. California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation N-Hexane (CAS 110-54-3) Can be absorbed through the skin. 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 ventilatio or other engineering controls to maintain airborne levels below recommended exposure limits have not been established, maintain airborne levels below recommended exposure limits have not been established, maintain airborne levels below recommended exposure limits have not been established. vidual protection Wear appropriate chemical resistant gloves. Skin protection Wear appropriate chemical resistant gloves. Skin protection Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Skin protection Mear appropriate c			TWA			-
1000 ppm ACGIH Biological Exposure Indices Components Value Determinant Specimen Sampling Time n-Hexane (CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio n, without hydrolysis * - For sampling details, please see the source document. Dosure guidelines US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Operate engineering n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Operate engineering n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Operate engineering 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. exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. ividual protection measures, such as personal protective equipment Eye/face protection Wear appropriate chemical resistant gloves. Skin protection Wear ap						••
AcGIH Biological Exposure Indices Components Value Determinant Specimen Sampling Time n-Hexane (CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio n, without hydrolysis Urine * * - For sampling details, please see the source document. * * * * cosure guidelines US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. 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. exposure limits have not been established, maintai airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. vidual protection Wear appropriate chemical resistant gloves. Skin protection Wear appropriate chemical resistant gloves. Skin protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. Thermal hazards Wear appropriate thermal protective clothing, when necessary.	Propane (CAS 74-98-6)		TWA			
ACGIH Biological Exposure Indices Components Value Determinant Specimen Sampling Time n-Hexane (CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio n, without hydrolysis Urine * * - For sampling details, please see the source document. * * * * cosure guidelines US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. Second 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. exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. vidual protection Wear appropriate chemical resistant gloves. Skin protection Skin protection Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Skin protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. Respiratory pro					1	000 ppm
ComponentsValueDeterminantSpecimenSampling Timen-Hexane (CAS 110-54-3)0.4 mg/l2,5-Hexanedio n, without hydrolysisUrine** - For sampling details, please see the source document.mydrolysis*posure guidelinesUS - California OELs: Skin designation n-Hexane (CAS 110-54-3)Can be absorbed through the skin.US - California OELs: Skin designation n-Hexane (CAS 110-54-3)Can be absorbed through the skin.IN ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3)Can be absorbed through the skin.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 ventilatio or other engineering htrolsfordurate engineering htrolsGood 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 ventilatio or other engineering controls to maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels be an acceptable level. Eve wash facilities and emergency shower must be available when handling this product.Ividual protection measures, such as personal protective equipmentEye/face protectionWear appropriate chemical resistant gloves.Skin protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.Skin protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. <td>logical limit values</td> <td></td> <td></td> <td></td> <td></td> <td></td>	logical limit values					
n-Hexane (CAS 110-54-3) 0.4 mg/l 2,5-Hexanedio n, without hydrolysis Vine * * - For sampling details, please see the source document. posure guidelines VS - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US A CGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. propriate engineering ntrols 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 ventilatio or other engineering controls to maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels below recommended exposure limits. tividual protection measures, such as personal protective equipment Eye/face protection Wear safety glasses with side shields (or goggles). Hand protection Hand protection Wear appropriate chemical resistant gloves. Skin protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. Thermal hazards Wear appropriate thermal protective clothing, when necessary. when using, do not eat, drink or smoke. Always observe good personal hygiene measures, su as washing after handling the material and before eating, drinking, and/or smoking. Routinely	ACGIH Biological Exposu	re Indices				
n, without hydrolysis * - For sampling details, please see the source document. posure guidelines US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. propriate engineering htrols 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 ventilatio or other engineering controls to maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. lividual protection measures, such as personal protective equipment Eye/face protection Wear safety glasses with side shields (or goggles). Hand protection Wear appropriate chemical resistant gloves. Skin protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. Thermal hazards Wear appropriate	Components	Value		Determinant	Specimen	Sampling Time
* - For sampling details, please see the source document. bosure guidelines US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) can be absorbed through the skin. 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 ventilatio or other engineering controls to maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. ividual protection measures, such as personal protective equipment Eye/face protection Wear safety glasses with side shields (or goggles). Hand protection Wear appropriate chemical resistant gloves. Skin protection Other Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. Thermal hazards Wear appropriate thermal protective clothing, when necessary. When using, do not eat, drink or smoke. Always observe good personal hygiene measures, su as washing after handling the material and before eating, drinking, and/or smoking. Routinely	n-Hexane (CAS 110-54-3)	0.4 mg/l		n, without	Urine	*
opsure guidelines US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. propriate engineering 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. exposure limits have not been established, maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. ividual protection measures, such as personal protective equipment Eye/face protection Wear appropriate chemical resistant gloves. Skin protection Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Skin pr	* - For sampling details, ple	ase see the source	e docu			
US - California OELs: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US ACGIH Threshold Limit Values: Skin designation n-Hexane (CAS 110-54-3) Can be absorbed through the skin. propriate engineering throis 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 ventilatio or other engineering controls to maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels below recommended exposure limits exposure limits and emergency shower must be available when handling this product. lividual protection measures, such as personal protective equipment Wear appropriate chemical resistant gloves. Skin protection Wear appropriate chemical resistant gloves. Skin protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. Thermal hazards Wear appropriate thermal protective clothing, when necessary. meral hygiene hysing after handling the material and before eating, drinking, and/or smoking. Routinely						
n-Hexane (CAS 110-54-3)Can be absorbed through the skin.US ACGIH Threshold Limit Values: Skin designationCan be absorbed through the skin.n-Hexane (CAS 110-54-3)Can be absorbed through the skin.propriate engineering ntrolsGood 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 ventilatio or other engineering controls to maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.lividual protection measures, such as personal protective equipment Eye/face protectionWear safety glasses with side shields (or goggles).Hand protection OtherWear appropriate chemical resistant gloves.Skin protection Respiratory protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.Thermal hazards meral hygiene msiderationsWear appropriate thermal protective clothing, when necessary.	-	designation				
US ACGIH Threshold Limit Values: Skin designationn-Hexane (CAS 110-54-3)Can be absorbed through the skin.propriate engineering ntrolsGood 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 ventilatio or other engineering controls to maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.lividual protection measures, such as personal protective equipment Wear safety glasses with side shields (or goggles).Hand protection OtherWear appropriate chemical resistant gloves.Skin protection Respiratory protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.Thermal hazards metal hygiene msiderationsWear appropriate thermal protective clothing, when necessary.		•		Conho	obsorbed three	augh the ekin
propriate engineering mtrolsGood 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 ventilatio or other engineering controls to maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.lividual protection measures, such as personal protective equipment Wear safety glasses with side shields (or goggles).Wear appropriate chemical resistant gloves.Skin protection OtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Skin protection Respiratory protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.Thermal hazards msiderationsWear appropriate thermal protective clothing, when necessary.Wear appropriate thermal protective clothing, when necessary.Wear appropriate measures, sur as washing after handling the material and before eating, drinking, and/or smoking. Routinely			signat			
Introlsshould be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.Ilvidual protection measures, such as personal protective equipment Eye/face protectionWear safety glasses with side shields (or goggles).Hand protectionWear appropriate chemical resistant gloves.Skin protectionWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Skin protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.Thermal hazardsWear appropriate thermal protective clothing, when necessary.meral hygiene msiderationsWhen using, do not eat, drink or smoke. Always observe good personal hygiene measures, sur as washing after handling the material and before eating, drinking, and/or smoking. Routinely	n-Hexane (CAS 110-54	- 3)		Can be	absorbed thro	bugh the skin.
Eye/face protectionWear safety glasses with side shields (or goggles).Hand protectionWear appropriate chemical resistant gloves.Skin protectionWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Skin protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.Thermal hazardsWear appropriate thermal protective clothing, when necessary.meral hygieneWhen using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely		should be mat	tched t			hour) should be used. Ventilation rates
Eye/face protectionWear safety glasses with side shields (or goggles).Hand protectionWear appropriate chemical resistant gloves.Skin protectionWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Skin protectionRespiratory protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.Thermal hazardsWear appropriate thermal protective clothing, when necessary.meral hygieneWhen using, do not eat, drink or smoke. Always observe good personal hygiene measures, sur as washing after handling the material and before eating, drinking, and/or smoking. Routinely	nuois	exposure limit	s have	controls to mainta not been establish	in airborne leve ned, maintain a	els below recommended exposure limits. irborne levels to an acceptable level. Eye
Hand protectionWear appropriate chemical resistant gloves.Skin protectionWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Skin protectionWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Skin protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.Thermal hazardsWear appropriate thermal protective clothing, when necessary.meral hygiene msiderationsWhen using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely		exposure limit wash facilities	s have and e	controls to mainta not been establish mergency shower	in airborne leve ned, maintain a must be availa	els below recommended exposure limits. irborne levels to an acceptable level. Eye
Skin protection Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Skin protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. Thermal hazards Wear appropriate thermal protective clothing, when necessary. meral hygiene insiderations When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely	lividual protection measure	exposure limit wash facilities s, such as persor	s have and e nal pro	controls to mainta not been establish mergency shower otective equipmer	in airborne leve ned, maintain a must be availa nt	els below recommended exposure limits. irborne levels to an acceptable level. Eye
OtherWear appropriate chemical resistant clothing. Use of an impervious apron is recommended.Skin protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.Thermal hazardsWear appropriate thermal protective clothing, when necessary.neral hygiene msiderationsWhen using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely	lividual protection measure Eye/face protection	exposure limit wash facilities s, such as persor Wear safety g	s have and e nal pro	controls to mainta not been establish mergency shower stective equipmen with side shields (in airborne leve ned, maintain a must be availa nt or goggles).	els below recommended exposure limits. irborne levels to an acceptable level. Eye
Skin protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. Thermal hazards Wear appropriate thermal protective clothing, when necessary. neral hygiene insiderations When using, do not eat, drink or smoke. Always observe good personal hygiene measures, sur as washing after handling the material and before eating, drinking, and/or smoking. Routinely	lividual protection measure Eye/face protection Hand protection	exposure limit wash facilities s, such as persor Wear safety g	s have and e nal pro	controls to mainta not been establish mergency shower stective equipmen with side shields (in airborne leve ned, maintain a must be availa nt or goggles).	els below recommended exposure limits. irborne levels to an acceptable level. Eye
Respiratory protectionIf permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.Thermal hazardsWear appropriate thermal protective clothing, when necessary.neral hygiene msiderationsWhen using, do not eat, drink or smoke. Always observe good personal hygiene measures, sur as washing after handling the material and before eating, drinking, and/or smoking. Routinely	lividual protection measure Eye/face protection Hand protection Skin protection	exposure limit wash facilities s, such as persor Wear safety g Wear appropri	s have and e nal pro lasses iate ch	controls to mainta not been establish mergency shower stective equipmer with side shields (emical resistant gl	in airborne leve ned, maintain a must be availa of goggles). oves.	els below recommended exposure limits. irborne levels to an acceptable level. Eye ble when handling this product.
air-supplied respirator.Thermal hazardsWear appropriate thermal protective clothing, when necessary.neral hygiene nsiderationsWhen using, do not eat, drink or smoke. Always observe good personal hygiene measures, su as washing after handling the material and before eating, drinking, and/or smoking. Routinely	lividual protection measure Eye/face protection Hand protection Skin protection	exposure limit wash facilities s, such as persor Wear safety g Wear appropri	s have and e nal pro lasses iate ch	controls to mainta not been establish mergency shower stective equipmer with side shields (emical resistant gl	in airborne leve ned, maintain a must be availa of goggles). oves.	els below recommended exposure limits. irborne levels to an acceptable level. Eye ble when handling this product.
neral hygieneWhen using, do not eat, drink or smoke. Always observe good personal hygiene measures, sunsiderationsas washing after handling the material and before eating, drinking, and/or smoking. Routinely	lividual protection measure Eye/face protection Hand protection Skin protection Other	exposure limit wash facilities s, such as persor Wear safety g Wear appropri	s have and e nal pro lasses iate ch	controls to mainta not been establish mergency shower stective equipmer with side shields (emical resistant gl	in airborne leve ned, maintain a must be availa of goggles). oves.	els below recommended exposure limits. irborne levels to an acceptable level. Eye ble when handling this product.
nsiderations as washing after handling the material and before eating, drinking, and/or smoking. Routinely	lividual protection measure Eye/face protection Hand protection Skin protection Other Skin protection	exposure limit wash facilities s, such as persor Wear safety g Wear appropri Wear appropri	s have and e nal pro lasses iate ch iate ch	controls to mainta not been establish mergency shower otective equipmer with side shields (emical resistant gl emical resistant cl are exceeded use	in airborne leve ned, maintain a must be availa or goggles). oves. othing. Use of	els below recommended exposure limits. irborne levels to an acceptable level. Eye ble when handling this product. an impervious apron is recommended.
	dividual protection measure Eye/face protection Hand protection Skin protection Other Skin protection Respiratory protection	exposure limit wash facilities s, such as persor Wear safety g Wear appropri Wear appropri If permissible air-supplied re	s have and e nal pro lasses iate ch iate ch levels espirato	controls to mainta not been establish mergency shower otective equipmer with side shields (emical resistant gl emical resistant cl are exceeded use or.	in airborne leve ned, maintain a must be availa or goggles). oves. othing. Use of NIOSH mecha	els below recommended exposure limits. irborne levels to an acceptable level. Eye ble when handling this product. an impervious apron is recommended. nical filter / organic vapor cartridge or an
	ividual protection measure Eye/face protection Hand protection Skin protection Other Skin protection Respiratory protection Thermal hazards neral hygiene	exposure limit wash facilities s, such as persor Wear safety g Wear appropri Wear appropri If permissible air-supplied re Wear appropri When using, c as washing afi wash work clo	s have and e nal pro lasses iate ch iate ch levels espirato iate the do not o ter har	controls to mainta not been establish mergency shower otective equipmer with side shields (emical resistant gl emical resistant cl are exceeded use or. ermal protective cla eat, drink or smoke adling the material	in airborne leve ned, maintain a must be availa or goggles). oves. othing. Use of NIOSH mecha othing, when n e. Always obse and before eat	els below recommended exposure limits. irborne levels to an acceptable level. Eye ble when handling this product. an impervious apron is recommended. nical filter / organic vapor cartridge or an ecessary. rve good personal hygiene measures, su ing, drinking, and/or smoking. Routinely

Appearance	
Physical state	Gas.
Form	Aerosol.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	Not available.

Melting point/freezing point	Not available.
Initial boiling point and boiling range	74.55 °F (23.64 °C) estimated
Flash point	-156.0 °F (-104.4 °C) Propellant estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	0.9 % estimated
Flammability limit - upper (%)	7 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	55 psig @70F estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	493.55 °F (256.42 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Specific gravity	0.758 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

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	Hazardous polymerization does not occur.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Nitrates. Fluorine. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Inhalation	May cause damage to organs through prolonged or repeated exposure by inhalation. Narcotic effects.
Skin contact	Causes skin irritation.
Eye contact	Not available.
Symptoms related to the physical, chemical and toxicological characteristics	Dizziness. Aspiration may cause pulmonary edema and pneumonitis. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity

May be fatal if swallowed and enters airways.

Product	Species	Test Results
BIG SLICK (CAS Mixture)		
Acute		
Dermal		
LD50	Guinea pig; Rabbit	35.8987 ml/kg, 24 Hours estimated
	Rabbit	14195.9375 mg/kg, 4 Hours estimated
		4556.9902 mg/kg, 24 Hours estimated
		35.4898 ml/kg, 4 Hours estimated
	Rat	7058.999 mg/kg estimated
Inhalation		
LC100	Cat	224.9269 % estimated
LC50	Mouse	3091.4954 mg/l, 120 Minutes estimated
		129.9578 %, 120 Minutes estimated
		39.987 mm/l, 2 Hours estimated
	Rat	
	Rai	35489.8438 ppm, 24 Hours estimated
		20071.0605 ppm, 4 Hours estimated
		12250.2158 mg/m3, 4 Hours estimated
		1619.6606 mg/l/4h estimated
		11.4215 mg/l, 4 Hours estimated
Oral	-	
LD50	Rat	11124.4355 mg/kg estimated
		169.7813 ml/kg estimated
	Wistar rat	347.8005 g/kg estimated
Components		Test Results
Species		
Butane (CAS 106-97-8) Acute		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
2000		52 %, 120 Minutes
	Rat	1355 mg/l
Cyclohexane (CAS 110-82-7)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 32880 mg/m3, 4 Hours
		> 5540 ppm, 4 Hours
	eated light (CAS 64742-49-0)	
Acute		
Dermal		
LD50	Guinea pig; Rabbit	> 9.4 ml/kg, 24 Hours
	Rabbit	> 1900 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 5020 mg/m3, 4 Hours
		> 4980 mg/m3
		> 4980 mg/m3, 4 Hours
		> 4.96 mg/l, 4 Hours
		13700 ppm, 4 Hours
		10100 ppili, + 10010

Components Species		Test Results
Oral		4820 mg/kg
LD50	Rat	
n-Heptane (CAS 142-82-5)		
Acute		
Dermal		> 2000 mg/kg, 24 Hours
LD50	Rabbit	
Inhalation		> 29.29 mg/l, 4 Hours
LC50	Rat	
n-Hexane (CAS 110-54-3)		
Acute		
Dermal	Dath	> 2000 mg/kg, 4 Hours
LD50	Rabbit	> 5 ml/kg, 4 Hours
Inhalation		> 5000 ppm, 24 Hours
LC50	Rat	> 31.86 mg/l
		73860 ppm, 4 Hours
		73660 ppm, 4 nouis
Oral		24 ml/kg
LD50	Rat	24 g/kg
	Wistar rat	49 g/kg
Octane (CAS 111-65-9)		10 9,19
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 24.88 mg/l, 4 Hours
Propane (CAS 74-98-6)		
Acute		
Inhalation		
LC50	Mouse	1237 mg/l, 120 Minutes
		52 %, 120 Minutes
	Rat	1355 mg/l
		658 mg/l/4h
Solvent Naphtha (Petroleum),	Light Aliphatic (CAS 64742-89-8)	
Acute		
Dermal		
LD50	Rabbit	> 1900 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 5020 mg/m3, 4 Hours
		> 4980 mg/m3
		> 4980 mg/m3, 4 Hours
		> 4.96 mg/l, 4 Hours
Oral		
LD50	Rat	4820 mg/kg
* Estimates for product ma	ay be based on additional component data not shown.	
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye	Not available.	
irritation		

Respiratory or skin sensitization	I de la construcción de la constru
Respiratory sensitization	Not available.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	May cause genetic defects.
Carcinogenicity	May cause cancer.
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1050)
Not listed.	
Reproductive toxicity	Suspected of damaging fertility.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Respiratory system. Skin. Central nervous system. Eyes. Peripheral nervous system. May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways.
Chronic effects	May cause damage to organs through prolonged or repeated exposure.

12. Ecological information

otoxicity	Toxic to aqu	atic life with long lasting effects.	
Product		Species	Test Results
BIG SLICK (CAS Mixture)			
Aquatic			
Algae	IC50	Algae	15963.4609 mg/L, 72 Hours estimated
Crustacea	EC50	Daphnia	19079.25 mg/L, 48 Hours estimated
Fish	LC50	Fish	16.2608 mg/L, 96 Hours estimated
Components		Species	Test Results
Cyclohexane (CAS 110-82-7)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	23.03 - 42.07 mg/l, 96 hours
n-Heptane (CAS 142-82-5)			
Aquatic			
Fish	LC50	Mozambique tilapia (Tilapia mossambica)	375 mg/l, 96 hours
n-Hexane (CAS 110-54-3)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	2.101 - 2.981 mg/l, 96 hours
Polydimethylsiloxane (CAS 6	3148-62-9)		
Aquatic			
Fish	LC50	Channel catfish (Ictalurus punctatus)	2.36 - 4.15 mg/l, 96 hours
Solvent Naphtha (Petroleum Aquatic), Light Aliphatic	c (CAS 64742-89-8)	
Algae	IC50	Algae	4700 mg/L, 72 Hours
* Estimates for product may	be based on ad	ditional component data not shown.	
rsistence and degradability	No data is av	vailable on the degradability of this product.	
oaccumulative potential	No data avai	ilable.	
Partition coefficient n-octa	nol / water (log	Kow)	
Butane		2.89	
Cyclohexane n-Heptane		3.44 4.66	
n-Hexane		3.9	
Octane		5.18	
Propane		2.36	
obility in soil	No data avai	ilable	

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 instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
US RCRA Hazardous Waste	U List: Reference	
Cyclohexane (CAS 110-8	32-7) U056	
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).	
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.	

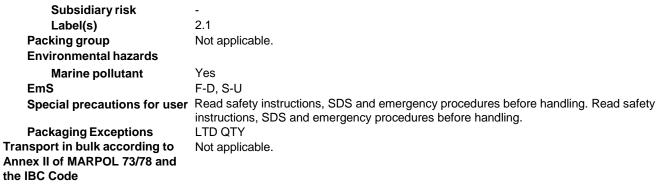
14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, flammable
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. Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

IATA

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	Yes
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
Packaging Exceptions	LTD QTY
IMDG	
UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.1



DOT



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CF	R 707, Subpt. D)
---	------------------

Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4)
· · · · · · · · · · · · · · · · · · ·
Cyclohexane (CAS 110-82-7)

Listed. Listed.

n-Hexane (CAS 110-54-3) SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
n-Hexane	110-54-3	10 - 20	
Cyclohexane	110-82-7	0.1 - 1	
Benzene	71-43-2	0.01 - 0.1	
Ethyl Benzene	100-41-4	0.01 - 0.1	

Other federal regulations

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

n-Hexane (CAS 110-54-3)

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

Butane (CAS 106-97-8) Propane (CAS 74-98-6)

Safe Drinking Water Act Not regulated. (SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Butane (CAS 106-97-8) Cyclohexane (CAS 110-82-7) n-Heptane (CAS 142-82-5) n-Hexane (CAS 110-54-3) Octane (CAS 111-65-9) Propane (CAS 74-98-6)

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

Butane (CAS 106-97-8) Cyclohexane (CAS 110-82-7) n-Heptane (CAS 142-82-5) n-Hexane (CAS 110-54-3) Octane (CAS 111-65-9) Propane (CAS 74-98-6)

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

Butane (CAS 106-97-8) Cyclohexane (CAS 110-82-7) n-Heptane (CAS 142-82-5) n-Hexane (CAS 110-54-3) Octane (CAS 111-65-9) Propane (CAS 74-98-6)

US. Rhode Island RTK

Butane (CAS 106-97-8) Cyclohexane (CAS 110-82-7) n-Hexane (CAS 110-54-3) Propane (CAS 74-98-6)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

Benzene (CAS 71-43-2) Ethyl Benzene (CAS 100-41-4)	Listed: February 27, 1987 Listed: June 11, 2004	
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 Proposit	ion 65 - CRT: Listed date/Female reproductive toxin	
Toluene (CAS 108-8 US - California Proposit	B-3) Listed: August 7, 2009 ion 65 - CRT: Listed date/Male reproductive toxin	
Benzene (CAS 71-43	3-2) Listed: December 26, 1997	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
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)	No
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	10-02-2014
Issued By	EHS Adminstrator
Version #	01
Disclaimer	We cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision Information	Product and Company Identification: Product and Company Identification Regulatory Information: United States GHS: Classification