



SECI	ION 1: IDENTIFICATION	
1.1	GHS Product identifier:	SMR Ice Shield Plus Boot Conditioner
	Other means of identification:	
	Not applicable (N/A)	
1.2	Recommended use of the chemical	and restrictions on use:
	Relevant uses: Not defined. For profess	ional users/industrial user only.
	Uses advised against: All uses not specif	ied in this section or in section 7.3
1.3	Name, address, and telephone num SMR Technologies Inc. 93 Nettie Fenwick Road Fenwick, WV 26202 Phone: 304-846-2554 info@iceshield.com;www.iceshield.com	ber of the chemical manufacturer, importer, or other responsible party:
1.4	Emergency phone number: Chemtre	ec 1-800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture:

29 CFR 1910.1200:

Classification of this product has been carried out in accordance with paragraph (d) of § 1910.1200.

Asp. Tox. 1: Aspiration hazard, Category 1, H304

Carc. 1B: Carcinogenicity, Category 1B, H350 Flam. Liq. 2: Flammable liquids, Category 2, H225 Repr. 2: Reproductive toxicity, Category 2, H361 Skin Irrit. 2: Skin irritation, Category 2, H315 STOT RE 2: Specific target organ toxicity, repeated exposure, Category 2, H373

STOT SE 3: Specific toxicity causing drowsiness and dizziness, single exposure, Category 3, H336

22 Label elements:

29 CFR 1910.1200:

Danger



Hazard statements:

Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Carc. 1B: H350 - May cause cancer. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. Repr. 2: H361 - Suspected of damaging fertility or the unborn child. Skin Irrit. 2: H315 - Causes skin irritation. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure. STOT SE 3: H336 - May cause drowsiness or dizziness. **Precautionary statements:** P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P308+P313: IF exposed or concerned: Get medical advice/attention. P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish. P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively. Substances that contribute to the classification





SECTION 2: HAZARD(S) IDENTIFICATION (continued)

TOLUENE (CAS: 108-88-3); C12-15 ALKANE/CYCLOALKANE/AROMATIC HYDROCARBONS (CAS: 64742-94-5); Naphthalene (CAS: 91-20-3); Cumene (CAS: 98-82-8)

Additional labeling:



WARNING

This product can expose you to chemicals including Naphthalene, Cumene, Benzene, which is [are] known to the State of California to cause cancer, and Benzene, which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

2.3 Hazards not otherwise classified (HNOC):

Not applicable (N/A)

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Not defined

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of \$1910.1200.Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 108-88-3	Toluene Asp. Tox. 1: H304; Flam. Liq. 2: H225; Repr. 2: H361; Skin Irrit. 2: H315; STOT RE 2: H373; STOT SE 3: H336 - Danger	25 - <50 %
CAS: 64742-94-5	Solvent naphtha (petroleum), heavy arom Asp. Tox. 1: H304; STOT SE 3: H336 - Danger	25 - <50 %
CAS: 64741-65-7	Naphtha (petroleum), heavy alkylate, < 0.1 % EC 200-753-7 Asp. Tox. 1: H304; Flam. Liq. 3: H226 - Danger	2.5 - <10 %
CAS: 64742-48-9	Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 Asp. Tox. 1: H304; Flam. Liq. 3: H226 - Danger	2.5 - <10 %
CAS: 91-20-3	Naphthalene Acute Tox. 4: H302; Carc. 2: H351 - Warning	2.5 - <10 %
CAS: 98-82-8	Cumene Asp. Tox. 1: H304; Carc. 1B: H350; Flam. Liq. 3: H226; STOT SE 3: H335 - Danger	<1 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply, etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.





SECTION 4: FIRST-AID MEASURES (continued)

By eye contact:

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request medical assistance immediately, showing the SDS of this product. Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Rinse out the mouth and throat, as they may have been affected during ingestion. Keep the person affected at rest.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Not applicable (N/A)

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and individual respiratory equipment. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

For accidental releases in excess of reportables quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802. Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:





SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Because the product is a flammable liquid, storage should meet the requirement of 29 CFR 1910.106, Flammable and Combustible Liquids Code. Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems and with the minimum requirements for protecting the security and health of workers. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in fixed places that comply with the necessary security conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to containers of small amounts. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 41 °F

Maximum Temp.: 90 °F

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

7.2

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

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

Identification		Occupational exposure limits		
Toluene ⁽¹⁾	8-hour TWA PEL	200 ppm	300 mg/m ³	
CAS: 108-88-3	Ceiling Values - TWA PEL			
Naphthalene	8-hour TWA PEL	10 ppm	50 mg/m ³	
CAS: 91-20-3	Ceiling Values - TWA PEL			
Cumene (1)	8-hour TWA PEL	50 ppm	245 mg/m ³	
CAS: 98-82-8	Ceiling Values - TWA PEL			
Benzene (1)	8-hour TWA PEL	10 ppm		
CAS: 71-43-2	Ceiling Values - TWA PEL	25 ppm		





SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

US. ACGIH Threshold Limi	t Values (2022):				
	Identification		Occupational exposure limits		
Toluene (1)			TLV-TWA	20 ppm	
CAS: 108-88-3			TLV-STEL		
Naphthalene			TLV-TWA	10 ppm	
CAS: 91-20-3			TLV-STEL		
Cumene (1)			TLV-TWA	25 ppm	
CAS: 98-82-8			TLV-STEL	75 ppm	
Benzene (1)			TLV-TWA	0.5 ppm	
CAS: 71-43-2			TLV-STEL	2.5 ppm	

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

Identification	Occupational exposure limits		
Toluene ⁽¹⁾	PEL	10 ppm	37 mg/m ³
CAS: 108-88-3	STEL	150 ppm	560 mg/m ³
Naphthalene	PEL	0.1 ppm	0.5 mg/m ³
CAS: 91-20-3	STEL		
Cumene (1)	PEL	50 ppm	245 mg/m ³
CAS: 98-82-8	STEL		
Benzene ⁽¹⁾	PEL	1 ppm	
CAS: 71-43-2	STEL		

(1) Likely absorption through the skin

Biological limit values:

Biological Exposure Indices (BEIs®) - ACGIH

Identification	BEIs®	Determinant	Sampling Time
Toluene CAS: 108-88-3	0.02 mg/L	Toluene in blood	Prior to last shift of workweek
Naphthalene CAS: 91-20-3	0.0025 mg/L	1-Hydroxypyrene in urine	End of shift at end of workweek
Benzene CAS: 71-43-2	0.025 mg/g (NULL)	S-Phenylmercapturic acid in urine	End of shift

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

Always provide effective general and, when necessary, local exhaust ventilation to maintain the ambient workplace atmosphere below the exposure limits.. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

	Pictogram	PPE	Remarks
	Mandatory respiratory tract protection	Filter mask for gases and vapours	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. Use respirator in accordance with manufacturer's use limitations and OSHA standard 1910.134 (29CFR)
C	Specific protection	n for the hands	
1			

Pictogram	PPE	Remarks	
Mandatory hand protection	Chemical protective gloves (Material: Linear low -density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)		
As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.			





SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued) D.-Eye and face protection Pictogram PPE Remarks Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer's Face shield use limitations and OSHA standard 1910.133 (29CFR) Mandatory face protection E.- Bodily protection PPE Pictogram Remarks Disposable clothing for protection against For professional use only. Clean periodically according to the manufacturer's chemical risks, with antistatic and fireproof instructions. properties Mandatory complete body protection Safety footwear for protection against chemical Replace boots at any sign of deterioration. risk, with antistatic and heat resistant properties Mandatory foot protection F.- Additional emergency measures Emergency measure Standards Emergency measure Standards ANSI Z358-1 DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 ISO 3864-1:2011, ISO 3864-4:2011 Emergency shower Eyewash stations **Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:	
Physical state at 68 ^o F:	Liquid
Appearance:	Not available
Color:	Not available
Odor:	Not available
Odour threshold:	Not applicable (N/A) *
Volatility:	
Boiling point at atmospheric pressure:	291 °F
Vapour pressure at 74 °F:	2202 Pa
Vapour pressure at 122 °F:	7772.63 Pa (7.77kPa)
Evaporation rate at 74 °F:	Not applicable (N/A) *
Product description:	
Density at 74 °F:	7316 kg/m³
Relative density at 74 °F:	Not applicable (N/A) *
Dynamic viscosity at 74 °F:	Not applicable (N/A) *
Kinematic viscosity at 74 °F:	Not applicable (N/A) *
*Not applicable (N/A) due to the nature of the product, r	not providing information property of its hazards.





SECT	TION 9: PHYSICAL AND CHEMICAL PROPERTI	ES (continued)
	Kinematic viscosity at 104 °F:	<20.5 mm ² /s
	Concentration:	Not applicable (N/A) *
	pH:	Not applicable (N/A) *
	Vapour density at 74 °F:	Not applicable (N/A) *
	Partition coefficient n-octanol/water 74 °F:	Not applicable (N/A) *
	Solubility in water at 74 °F:	Not applicable (N/A) *
	Solubility properties:	Not applicable (N/A) *
	Decomposition temperature:	Not applicable (N/A) *
	Melting point/freezing point:	Not applicable (N/A) *
	Flammability:	
	Flash Point:	51 °F
	Flammability (solid, gas):	Not applicable (N/A) *
	Autoignition temperature:	392 °F
	Lower flammability limit:	Not available
	Upper flammability limit:	Not available
	Particle characteristics:	
	Median equivalent diameter:	Non-applicable
9.2	Other information:	
	Information with regard to physical hazard class	sses:
	Explosive properties:	Not applicable (N/A) *
	Oxidising properties:	Not applicable (N/A) *
	Corrosive to metals:	Not applicable (N/A) *
	Heat of combustion:	Not applicable (N/A) *
	Aerosols-total percentage (by mass) of flammable components:	Not applicable (N/A) *
	Other safety characteristics:	
	Surface tension at 74 °F:	Not applicable (N/A) *
	Refraction index:	Not applicable (N/A) *
	*Not applicable (N/A) due to the nature of the product, not provi	iding information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	Not applicable	Avoid alkalis or strong bases





SECTION 10: STABILITY AND REACTIVITY (continued)

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO₂), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

- A- Ingestion (acute effect):
 - Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.

- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

- B- Inhalation (acute effect):
 - Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
 - Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- C- Contact with the skin and the eyes (acute effect):
 - Contact with the skin: Produces skin inflammation.
 - Contact with the eyes: Based on available data, the classification criteria are not met, as it does not contain substances
- classified as hazardous for this effect. For more information see section 3.
- D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):
 - Carcinogenicity: Exposure to this product can cause cancer. For more specific information on the possible health effects see section 2.

IARC: Toluene (3); Naphthalene (2B); Cumene (2B); Benzene (1); Solvent naphtha (petroleum), heavy arom (3); Naphtha (petroleum), heavy alkylate, < 0.1 % EC 200-753-7 (3); Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 (3) - Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

- Reproductive toxicity: Suspected of damaging fertility or the unborn child
- E- Sensitizing effects:
 - Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
 - Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- F- Specific target organ toxicity (STOT) single exposure:

Exposure in high concentration can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.

- G- Specific target organ toxicity (STOT)-repeated exposure:
 - Specific target organ toxicity (STOT)-repeated exposure: Exposure in high concentration can cause a breakdown in the central nervous system causing headache, dizziness, vertigo, nausea, vomiting, confusion, and in serious cases, loss of consciousness.
 - Skin: Based on available data, the classification criteria are not met, however, it does contain substances which are classified as dangerous due to repetitive exposure. For more information see section 3.
- H- Aspiration hazard:

May be fatal if swallowed and enters airways.

Other information:

Not applicable (N/A)





SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Specific toxicology information on the substances:

Identification	A	cute toxicity	Genus
Toluene	LD50 oral	5580 mg/kg	Rat
CAS: 108-88-3	LD50 dermal	12124 mg/kg	Rat
	LC50 inhalation	28.1 mg/L (4 h)	Rat
Naphthalene	LD50 oral	533 mg/kg (ATEi)	Rat
CAS: 91-20-3	LD50 dermal	>16000 mg/kg	Rat
	LC50 inhalation	>5 mg/L	
Solvent naphtha (petroleum), heavy arom	LD50 oral	7050 mg/kg	Rat
CAS: 64742-94-5	LD50 dermal	3160 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Naphtha (petroleum), heavy alkylate, < 0.1 % EC 200-753-7	LD50 oral	2100 mg/kg	Rat
CAS: 64741-65-7	LD50 dermal	2000 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7	LD50 oral	15000 mg/kg	Rat
CAS: 64742-48-9	LD50 dermal	3160 mg/kg	Rabbit
	LC50 inhalation	>20 mg/L	
Cumene	LD50 oral	2700 mg/kg	
CAS: 98-82-8	LD50 dermal	>5000 mg/kg	
	LC50 inhalation	>20 mg/L	

Acute Toxicity Estimate (ATE mix):

	ATE mix		
Oral	10869.63 mg/kg (Calculation method)	0 %	
Dermal	6907.56 mg/kg (Calculation method)	0 %	
Inhalation	>20 mg/L (4 h) (Calculation method)	Non-applicable	

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:	
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Identification		Concentration	Species	Genus
Toluene	LC50	5.5 mg/L (96 h)	Oncorhynchus kisutch	Fish
CAS: 108-88-3	EC50	3.78 mg/L (48 h)	Ceriodaphnia dubia	Crustacean
	EC50	Not applicable (N/A)		
Solvent naphtha (petroleum), heavy arom	LC50	45 mg/L (96 h)	Pimephales promelas	Fish
CAS: 64742-94-5	EC50	Not applicable (N/A)		
	EC50	2.5 mg/L (72 h)	Skeletonema costatum	Algae
Naphtha (petroleum), heavy alkylate, < 0.1 % EC 200-753-7	LC50	Not applicable (N/A)		
CAS: 64741-65-7	EC50	2 mg/L (48 h)	Mysidopsis bahia	Crustacean
	EC50	13 mg/L (72 h)	Selenastrum capricornutum	Algae
Cumene	LC50	2.7 mg/L (96 h)	Salmo gairdneri	Fish
CAS: 98-82-8	EC50	10.8 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	2.6 mg/L (72 h)	Selenastrum capricornutum	Algae

Chronic toxicity:

Identification	Concentration		Species	Genus
Naphthalene	NOEC	0.37 mg/L	Oncorhynchus kisutch	Fish
CAS: 91-20-3	NOEC	0.59 mg/L	Daphnia pulex	Crustacean





SECTION 12: ECOLOGICAL INFORMATION (continued)

TION 12: ECOLOGICAL INFORMATION (c	ontinued)							
Identification			Concentration		Species		Genus	
Cumene	NOEC	C 0	.38 mg/L		Pimephales promela	s	Fish	
CAS: 98-82-8	NOEC	C 0	.35 mg/L		Daphnia magna		Crustacear	
Persistence and degradability:								
Substance-specific information:								
Identification		Degr	adability		Biodegradab	oility		
Toluene BOD5			2.5 g O2/g	Conce	ntration	100 m	g/L	
CAS: 108-88-3	COD		Not applicable (N/A)	Period		14 day	/S	
	BOD5/COD		Not applicable (N/A)	% Bio	degradable	100 %)	
Naphthalene	BOD5		Not applicable (N/A)	Conce	ntration	100 m	g/L	
CAS: 91-20-3	COD	D Not applicable (N/A)		Period	eriod 28 d		days	
	BOD5/COD		Not applicable (N/A)	% Bio	degradable	2 %		
Cumene	BOD5		Not applicable (N/A)	Conce	ntration	100 m	g/L	
CAS: 98-82-8	COD		Not applicable (N/A)	Period		14 day	/S	
	BOD5/COD		Not applicable (N/A)	% Bio	degradable	40 %		

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccu	Bioaccumulation potential			
Toluene	BCF	90			
CAS: 108-88-3	Pow Log	2.73			
	Potential	Moderate			
Solvent naphtha (petroleum), heavy arom	BCF	159			
CAS: 64742-94-5	Pow Log	4.5			
	Potential	High			
Naphthalene	BCF	168			
CAS: 91-20-3	Pow Log	3.3			
	Potential	High			
Cumene	BCF	120			
CAS: 98-82-8	Pow Log	3.66			
	Potential	High			

12.4 Mobility in soil:

Identification	Absorp	Absorption/desorption Volatil		
Toluene	Кос	178	Henry	672.8 Pa·m ³ /mol
CAS: 108-88-3	Conclusion	Moderate	Dry soil	Yes
	Surface tension	2.793E-2 N/m (77 °F)	Moist soil	Yes
Naphthalene	Кос	817	Henry	44.58 Pa·m ³ /mol
CAS: 91-20-3	Conclusion	Moderate	Dry soil	Not applicable (N/A)
	Surface tension	1.306E-2 N/m (531.93 °F)	Moist soil	Not applicable (N/A)
Cumene	Кос	Not applicable (N/A)	Henry	Not applicable (N/A)
CAS: 98-82-8	Conclusion	Not applicable (N/A)	Dry soil	Not applicable (N/A)
	Surface tension	2.769E-2 N/m (77 °F)	Moist soil	Not applicable (N/A)

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described





SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

The next characteristic per RCRA could apply to the unused product if it becomes a waste material: Ignitability. The next EPA hazardous waste number could apply: D001.

IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO EVALUATE WHETHER HIS WASTES ARE HAZARDOUS BY CHARACTERISTICS OR LISTING.

Waste management (disposal and evaluation):

Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly. Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing. See section 6 for further information about Accidental release measures.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Solid Wastes - Part 239 through 282.

State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state's policies.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:





Safety data sheet according to 29 CFR 1910.1200

SMR Ice Shield Plus Boot Conditioner



SECTION 14: TRANSPORT	INFORMATION (continued)	
Transport of dangero	ous goods by air:	
With regard to IATA/IC	AO 2024:	
	UN number: UN proper shipping name:	UN1993 FLAMMABLE LIQUID, N.O.S. (Toluene; Solvent naphtha (petroleum), heavy arom)
14.3	Transport hazard class(es): Labels:	3 3
14.4	Packing group, if applicable:	II
14.5	Marine pollutant:	Yes
14.6	• •	user needs to be aware of, or needs to comply with, in conveyance either within or outside their premises
	Physico-Chemical properties:	see section 9
14.7	Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	Not applicable (N/A)

SECTION 15: REGULATORY INFORMATION

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



SECTION 15: REGULATORY INFORMATION (continued)

	CALIFORNIA LABOR CODE - The Hazardous Substances List: <i>Toluene (108-88-3)</i> ; <i>Naphthalene (91-20-3)</i> ; <i>Cumene (98-82-8)</i> ; Enzene (71-43-2)
- C	California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive rm: <i>Benzene (71-43-2)</i>
- C	California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: <i>Naphthalene (91-20-3)</i> ; <i>imene (98-82-8)</i> ; <i>Benzene (71-43-2)</i>
- C (7. 20	CANADA-Domestic Substances List (DSL): <i>Toluene (108-88-3)</i> ; <i>Naphthalene (91-20-3)</i> ; <i>Cumene (98-82-8)</i> ; <i>Benzene</i> (1-43-2); <i>Solvent naphtha (petroleum), heavy arom (64742-94-5)</i> ; <i>Naphtha (petroleum), heavy alkylate, < 0.1 % EC</i> (10-753-7 (64741-65-7); <i>Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 (64742-48-9)</i> ;
3,5 3,5	9-dicyclohex-3-enyl-2,4,8,10-tetraoxaspiro[5.5]undecane (6600-31-3) ; 5-bis(1,1-dimethylethyl)-4-hydroxybenzenepropanoate, C13 branched and linear alkyl 5-bis(1,1-dimethylethyl)-4-hydroxybenzenepropanoate (171090-93-0)
- C	CANADA-Non-Domestic Substances List (NDSL): Not applicable (N/A) Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: <i>Toluene (108-88-3)</i>
-⊦ -№ <i>So</i>	U220 ; Naphthalene (91-20-3) - U165 ; Cumene (98-82-8) - U055 ; Benzene (71-43-2) - U019 Hazardous Air Pollutants (Clean Air Act): Toluene (108-88-3) ; Naphthalene (91-20-3) ; Cumene (98-82-8) ; Benzene (71-43-2) Massachusetts RTK - Substance List: Toluene (108-88-3) ; Naphthalene (91-20-3) ; Cumene (98-82-8) ; Benzene (71-43-2) ; Polvent naphtha (petroleum), heavy arom (64742-94-5) ; Naphtha (petroleum), heavy alkylate, < 0.1 % EC 200-753-7 14741-65-7) ; Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 (64742-48-9)
- № ; S	(4741-05-7); Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 (04742-40-5) (4742-40-5) (4741-05-7); Naphtha (petroleum), heavy arom (64742-94-5); Naphtha (petroleum), heavy alkylate, < 0.1 % EC 200-753-7 (4741-65-7); Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 (64742-48-9)
- N Be 20	New Jersey Worker and Community Right-to-Know Act: <i>Toluene (108-88-3)</i> ; <i>Naphthalene (91-20-3)</i> ; <i>Cumene (98-82-8)</i> ; Enzene (71-43-2); Solvent naphtha (petroleum), heavy arom (64742-94-5); Naphtha (petroleum), heavy alkylate, < 0.1 % EC 20-753-7 (64741-65-7); Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 (64742-48-9)
- N (p	New York RTK - Substance list: <i>Toluene (108-88-3)</i> ; <i>Naphthalene (91-20-3)</i> ; <i>Cumene (98-82-8)</i> ; <i>Benzene (71-43-2)</i> NTP (National Toxicology Program): <i>Naphthalene (91-20-3)</i> ; <i>Cumene (98-82-8)</i> ; <i>Benzene (71-43-2)</i> ; <i>Solvent naphtha</i> <i>netroleum), heavy arom (64742-94-5)</i> ; <i>Naphtha (petroleum), heavy alkylate, < 0.1 % EC 200-753-7 (64741-65-7)</i> ; <i>Naphtha</i> <i>netroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 (64742-48-9)</i>
	DSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): <i>Benzene (71-43-2)</i>
- P <i>Be</i>	Pennsylvania Worker and Community Right-to-Know Law: <i>Toluene (108-88-3)</i> ; <i>Naphthalene (91-20-3)</i> ; <i>Cumene (98-82-8)</i> ; Enzene (71-43-2); Solvent naphtha (petroleum), heavy arom (64742-94-5); Naphtha (petroleum), heavy alkylate, < 0.1 % EC 20-753-7 (64741-65-7); Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 (64742-48-9)
	Rhode Island - Hazardous substances RTK: Toluene (108-88-3); Naphthalene (91-20-3); Cumene (98-82-8); Benzene (1-43-2)
(7. 20	The Toxic Substances Control Act (TSCA) : <i>Toluene (108-88-3)</i> ; <i>Naphthalene (91-20-3)</i> ; <i>Cumene (98-82-8)</i> ; <i>Benzene</i> (1-43-2); <i>Solvent naphtha (petroleum), heavy arom (64742-94-5)</i> ; <i>Naphtha (petroleum), heavy alkylate, < 0.1 % EC</i> 10-753-7 (64741-65-7); <i>Naphtha (petroleum), hydrotreated heavy, < 0.1 % EC 200-753-7 (64742-48-9)</i> ; od dis idea 2.3 em/, 2.4.6 to tetroevergine 5.5 bundence (600, 21, 2);
	9-dicyclohex-3-enyl-2,4,8,10-tetraoxaspiro[5.5]undecane (6600-31-3) ; 5-bis(1,1-dimethylethyl)-4-hydroxybenzenepropanoate, C13 branched and linear alkyl
- T	5- <i>bis(1,1-dimethylethyl)-4-hydroxybenzenepropanoate (171090-93-0)</i> Foxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): <i>Toluene (108-88-3)</i> ; <i>Naphthalene (91-20-3)</i> ; Imene (98-82-8) ; Benzene (71-43-2)
	pecific provisions in terms of protecting people or the environment:
ass	is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific risk sessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and sposing of this product.
	ther legislation:
	ke into consideration other applicable federal, state, and local laws and local regulations.

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets **Texts of the legislative phrases mentioned in section 2:**





SECTION 16: OTHER INFORMATION (continued)

 H315: Causes skin irritation. H336: Suspected of damaging fertility or the unborn child. H336: May cause damage to organs through prolonged or repeated exposure. H337: May cause admarks of dizziness. H377: May cause admarks of dizziness. H304: May be fatal if swallowed and enters airways. H225: Highly flammable liquid and vapour. Texts of the legislative phrases mentioned in section 3: The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3 29 CFR 1910.1200: Acute Tox. 4: H302 - Harmful if swallowed. Asp. Tox. 1: H304 - May be fatal if swallowed. Asp. Tox. 1: H304 - May be fatal if swallowed. Asp. Tox. 1: H304 - May be fatal if swallowed. Asp. Tox. 1: H304 - May be fatal if swallowed. Asp. Tox. 1: H304 - May be fatal if swallowed. Asp. Tox. 1: H304 - May be fatal if swallowed. Asp. Tox. 1: H304 - May cause cancer. Carc. 2: H335 - Suspected of causing cancer. Ham. Liq. 2: H225 - Highly flammable liquid and vapour. Rem. 2: H331 - Suspected of admaging fertility or the unborn child. Skin Irrit. 2: H315 - Suspected of damaging fertility or the unborn child. Skin Irrit. 2: H335 - May cause damage to organs through prolonged or repeated exposure. STOT SE 3: H335 - May cause damage to organs through prolonged or repeated exposure. STOT SE 3: H335 - May cause damage to organs through prolonged or sepaster as well as the product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product libel. Principal bibliographical sources: DADS: International Amritime dangerous goods code <li< b=""></li<>	ION 16: OTHER INFORMATION (continued)	
 H34: May be fatal if swallowed and enters airways. H225: Highly flammable liquid and vapour. Texts of the legislative phrases mentioned in section 3: The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3 29 CFR 1910.1200: Acute Tox. 4: H302 - Harmful if swallowed. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Care. 18: H350 - May cause cancer. Care. 2: H351 - Suspected of causing cancer. Flam. Liq. 3: H226 - Flammable liquid and vapour. Flam. Liq. 3: H226 - Flammable liquid and vapour. Repr. 2: H361 - Suspected of damaging fertility or the unborn child. Skin Irnit. 2: H315 - May cause acance. STOT RE 2: H373 - May cause amage to organs through prolonged or repeated exposure. STOT SE 3: H335 - May cause respiratory inritation. STOT SE 3: H335 - May cause and exposing expression dizziness. Advice related to training: According to 29 CFR 1910. 1200, training on chemical hazards is necessary for employees using this product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product label. Principal bibliographical sources: Occupational safety & Health Administration (OSHA). Abbreviations and acronyms: IMDG: International Maritime dangerous goods code IATA: International Maritime dangerous goods code IATA: International Air Transport Association COD: Chemical Oxygen Demand BOD5: 5-day biochemical oxygen demand BCFS: Bioconcentration factor LD50: Lethal Dose 50 CL50: Lethal Dose 50 CL50: Effective concentration 50 LC50: Effective concentration 50 LC50: Effective concentration 50 LC50: Effective concentration 50 LC50: Effec	H361: Suspected of damaging fertility or the unborn child. H336: May cause drowsiness or dizziness. H373: May cause damage to organs through prolonged or repeated exposure.	
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IARC: International Agency for Research on Cancer	EC50: Effective concentration 50 Log-POW: Octanol-water partition coefficient	
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