

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: Glo-Brite Citronella Patio Torch Fuel
SDS number: TF.CBCT2
Synonym(s): Fuel oil blend

1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Bug repellent fuel oil for outdoor torches
Uses advised against: Not for indoor use

1.3 Details of the supplier and of the safety data sheet

Manufacturer/Distributor
Packaging Service Co., Inc.
1904 Mykawa Road
Pearland, TX 77581-3210 USA
1-281-485-1458

1.4 Emergency telephone number

CHEMTREC: 1-800-424-9300 (USA)
CANUTEC: 1-613-996-6666 (Canada)

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture

Product definition: Mixture
Classification in accordance with 29 CFR 1910 (OSHA HCS) and Regulation EC No. 1272/2008
Flammable Liquid - Category 4 [H227]
Aspiration Hazard - Category 1 [H304]
Skin Irritant - Category 2 [H315]
Specific Target Organ Toxicity, Single Exposure - Category 3 (STOTE SE 3) [H336]

2.2 Label elements

Hazard symbol(s):



GHS08 GHS07

Signal word:

Danger

Hazard statement(s):

H227 - Combustible liquid
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness

Precautionary statements:

[Prevention]

P210 - Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P261 - Avoid breathing fume or vapor.
P264 - Wash hands and unprotected skin areas thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing and eye protection.

[Response]

P301 + P331 + P310 - IF SWALLOWED: DO NOT induce vomiting. Immediately call a POISON CENTER or doctor.
P302 + P352 - IF ON Skin: Wash with plenty of soap and water.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P321 - Specific treatment - Seek medical attention if you feel unwell. Refer to Section 4 of this SDS.
P332 + P313 - If skin irritation persists: Get medical attention.
P362 - Take off contaminated clothing and wash before reuse.
P370 + P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction.
P405 + P403 + P233 + P235 - Store locked up in a in well-ventilated place. Keep container tightly closed. Keep cool.
P501 - Dispose of contents and containers in accordance with national and local regulations.

[Storage]

[Disposal]

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

May cause drying and cracking of the skin.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable

3.2 Mixtures

% by Weight	Ingredient	CAS Number	EC Number	Annex Number	GHS Classification
98 - 100	Proprietary fuel oil blend	-----	-----	-----	H227, H304, H315, H336, H412

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identify and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with the applicable provisions of paragraph (i).

There are no additional ingredients present in this product which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 - FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation: If product fume or vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. If unconscious, maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. If symptoms persist, seek medical attention.

Eyes: Immediately flush eyes with large amounts of water or saline solution for at least 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses, if present and easy to do, after first 2 minutes and continue rinsing. If irritation persists seek medical attention, preferably from an ophthalmologist.

Skin: Flush skin with large amounts of water while removing contaminated clothing. Wash the affected area with soap and water followed by thorough rinsing. Wash contaminated clothing and shoes before reuse. If irritation persists, seek medical attention.

Ingestion: Rinse mouth with water if the victim is conscious. Remove dentures, if present. DO NOT induce vomiting unless directed to do so by medical personnel. Vomiting may occur spontaneously. To prevent aspiration of material into the lungs, lay the victim on one side with the head lower than the waist. Never give anything by mouth to an unconscious or convulsing person. Do not leave the victim unattended. Seek immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: May cause eye irritation with redness, discomfort and tearing.

Skin: Prolonged and repeated contact with unprotected skin may cause skin irritation with localized redness, itching and discomfort.

Inhalation: Vapor from this product may cause irritation of the nose, throat and lungs. May be harmful if inhaled. May cause central nervous system effects, characterized by headache, nausea, vomiting, dizziness, drowsiness, tiredness and narcotic effects.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting abdominal pain and diarrhea. May cause headache, dizziness and central nervous system depression. Aspiration of material during swallowing or vomiting can result in lung inflammation or other lung injury.

Chronic: Pre-existing disorders of the skin and respiratory system may be aggravated by exposure to this product. Prolonged and repeated skin exposure may result in drying or defatting of skin and dermatitis. May cause an allergic skin reaction in rare instances. This product may contain Distillates (Petroleum) Light Hydrotreated, a known animal carcinogen.

Reports have associated repeated and prolonged occupational exposure to light petroleum products with irreversible brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling this product may be harmful or fatal.

4.3 Indication of any immediate medical attention and special treatment needed

Advice to doctor and hospital personnel

Treat symptomatically and supportively

SECTION 5 - FIRE FIGHTING MEASURES

5.1 Extinguishable media

Suitable methods of extinction: Use extinguishing media such as water spray or fog, carbon dioxide, foam and dry chemical.

Unsuitable methods of extinction: Water jets or streams may spread the fire.

5.2 Special hazards arising from the substance or mixture

Combustible liquid. Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent or may be delayed. Obtain medical attention.

Explosion hazards: Not expected to be an explosion hazard.

5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If possible, firefighters should control runoff water to prevent environmental contamination.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Evacuate non-essential personnel. Wear appropriate protective clothing and equipment designated in Section 8.2. Ventilate the area. Remove all sources of ignition. No smoking. Clean up spills immediately. Spill creates a slip hazard.

6.2 Environmental precautions

Avoid dispersal of spilled material or runoff and prevent contact with soil and entry into drains, sewers or waterways.

6.3 Methods and materials for containment and cleaning up

DO NOT flush the spill down the drain. Approach spill from upwind direction. Cover drains and contain spill. Cover spill with a large quantity of inert absorbent. Do not use combustible material such as sawdust. Collect material using non-sparking tools and place into an approved container for proper disposal. Observe possible material restrictions (Sections 7.2 and 10.5). Do not allow material or runoff from rinsing

contaminated areas to enter floor drains or storm drains and ditches that lead to waterways. Dispose of via a licensed waste disposal contractor. If spilled on water remove with appropriate methods (e.g. skimming, booms or absorbents).

This product is classified as an oil under Section 311 of the Clean Water Act (CWA) and under the Oil Pollution Act (OPA). In the USA discharges or spills of material on waters of the United States, their adjoining shorelines or into conduits leading to surface waters must be reported to the National Response Center at 800-424-8802.

6.4 Reference to other sections

For indications about waste treatment, see Section 13.

SECTION 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear all appropriate personal protective equipment specified in Section 8.2. Do not get in eyes or on skin or clothing. Do not inhale fume or vapor. No smoking. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Wash contaminated clothing and shoes thoroughly before reuse.

Advice on protection against fire and explosion

Avoid exposure to high temperatures, hot surfaces and sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

Store in dry, cool, well-ventilated areas away incompatible materials (see Section 10.5), food and drink. Transfer only to approved containers having correct labeling. Keep containers tightly closed when not in use. Protect containers against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent spillage. Containers are hazardous when empty as they contain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

7.3 Specific end uses

Apart from the uses mentioned in Section 1.2, no other specific uses are stipulated.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Occupational exposure limit values

CAS Number	Ingredient	OSHA PEL	ACGIH TLV	NIOSH
-----	Proprietary fuel oil blend	-----	200 mg/m ³	100 mg/m ³

8.2 Exposure controls

Engineering measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7.1.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.

Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking, smoking or using the lavatory.

Eye/face protection: Wear safety glasses with unperforated side shields or protective splash goggles during use.

Hand protection: Wear chlorinated polyethylene (CPE) gloves or those recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of selected gloves must be greater than the intended use period.

Skin protection: Wear protective clothing. Wear protective boots if the situation requires.

Respiratory protection: Always use an approved respirator when vapor/aerosols exceed exposure limit values. Where risk assessment shows air-purifying respirators are appropriate use a half mask respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Follow OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

Environmental exposure controls: Do not empty into drains.

PPE must not be considered a long-term solution to exposure control. PPE usage must be accompanied by employer programs to properly select, maintain, clean fit and use. Consult a competent industrial hygiene resource to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.



SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Clear, colorless liquid
Odor	Waxy; hydrocarbon
Odor Threshold	No data available
Molecular Weight	No data available
Chemical Formula	No data available
pH	No data available
Freezing/Melting Point, Range	No data available
Boiling Point Range	192 - 227 °C (377 - 441 °F)

Evaporation Rate	No data available
Flammability (solid, gas)	Not applicable
Flash Point	≥67 °C (≥152.6 °F), TCC
Autoignition Temperature	>220 °C (>428 °F)
Decomposition Temperature	No data available
Lower Explosive Limit (LEL)	No data available
Upper Explosive Limit (UEL)	No data available
Vapor Pressure	<1 mm Hg, ambient temperature
Vapor Density	>1 [Air = 1]
Specific Gravity	0.8
Density	0.8 g/ml (6.68 lb/gal)
Viscosity	No data available
Solubility in Water	Negligible; 1.5 g/l
Partition Coefficient: n-octanol/water	log Pow = 3 - 6 [estimated]
Oxidizing Properties	Not applicable
Explosive Properties	Not applicable
Volatiles by Weight @ 21 °C	100

9.2 Other data

Flammability Classification	IIIA
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SECTION 10 - STABILITY AND REACTIVITY

10.1 Reactivity

This product is stable under normal handling and use.

10.2 Chemical stability

This material is stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4 Conditions to avoid

High temperatures, hot surfaces, sources of ignition and contact with incompatible materials.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Thermal decomposition products include oxides of carbon, hydrocarbons and hydrocarbon fragments.

SECTION 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Oral Toxicity

No data available

Acute inhalation toxicity

No data available

Acute dermal toxicity

No data available

Skin irritation

Causes skin irritation.

Eye irritation

May cause eye irritation.

Sensitization

No data available

Genotoxicity in vitro

No data available

Mutagenicity

No data available

Specific organ toxicity - single exposure

May cause drowsiness or dizziness. May cause respiratory irritation.

Specific organ toxicity - repeated exposure

May cause damage to the central nervous system.

Aspiration hazard

May be fatal if swallowed and enters the airways

11.2 Further information

This product may contain Distillates (Petroleum), Hydrotreated Light (CAS #64742-47-8): ACGIH A3 carcinogen - Confirmed animal carcinogen with unknown relevance to humans. Not listed by IARC, NTP or OSHA. Tumorigenic effects have been reported in experimental animals. No data is available regarding the mutagenicity or teratogenicity of this product, nor is there any available data that indicates that it causes adverse developmental or fertility effects.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12 - ECOLOGICAL INFORMATION

12.1 Toxicity

This product contains components that are potentially toxic to freshwater and salt water ecosystems.

The fuel oils in this product are not toxic to fish but may coat gill structures resulting in suffocation if spilled in shallow, running water. They may be moderately toxic to amphibians by preventing dermal respiration. They may cause gastrointestinal distress to birds and mammals through ingestion during pelage grooming. If applied to leaves, distillates may kill grasses and small plants by interfering with transpiration and respiration.

12.2 Persistence and degradability

This product is expected to biodegrade over time.

12.3 Bioaccumulation potential

This material has the potential to bioaccumulate.

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Additional ecological information

Do not allow material to run into surface waters, wastewater or soil.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Methods of disposal: The generation of waste should be avoided or minimized whenever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

RCRA P-Series: No listings above the reportable threshold (de minimis)

RCRA U-Series: No listings above the reportable threshold (de minimis)

SECTION 14 - TRANSPORT INFORMATION

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100 - 177, IMDG, IATA, EC, United Nations TDG and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

Limited quantity for combustible liquids Packing Group III when inner packagings are not over 5.0 liters (1.3 gallons) net capacity each, packed in a strong outer packaging.

USA DOT (Ground Transportation) - Bulk and Non-bulk

Proper Shipping Name: Combustible liquid, n.o.s. (Proprietary solvent blend)
Hazard Class: Comb liq
UN/NA: NA1993
Packing Group: III
NAERG: Guide #128
Packaging Authorization: Non-Bulk: 49 CFR 173.203; Bulk: 173.241
Packaging Exceptions: 49 CFR 173.150
Consumer Products: Limited quantity for transport when inner packagings are ≤5.0 l (1.3 gal) net capacity each, packed in a strong outer packaging.

Drum label(s)



IMO/IMDG (Water Transportation)

Not regulated for transport (Consult IMO regulations before transporting ocean bulk.)

ICAO/IATA (Air Transportation)

Not regulated for transport

RID/ADR (Rail Transportation)

Not regulated for transport

SECTION 15 - REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for substance or mixture

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material is classified as hazardous in accordance with OSHA 29 CFR 1910-1200.

OSHA Process Safety Management Standard: This product is not regulated under OSHA PSM Standard 29 CFR 1910.119.

EPA Risk Management Planning Standard: This product is not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

EPA Federal Insecticide, Fungicide and Rodenticide Act: This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

Toxic Substance Control Act (TSCA) Inventory: All of the components of this product are either listed or exempt from listing on the TSCA Inventory. It is not subject to TSCA 12(b) Export Notification.

Drug Enforcement Administration (DEA) List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.4(f)(2)) and Chemical Code Number
None listed

Drug Enforcement Administration (DEA) Lists 1 & 2, Exempt Chemical Mixtures (21 CFR 1310.12(c)) and Code Number
None listed

Department of Homeland Security (DHS) Chemical Facility Anti-Terrorism Standards (CFATS) Chemicals: None listed

Superfund Amendments and Reauthorization Act (SARA)

SARA Section 311/312 Hazard Categories: Fire Hazard, Acute Health Hazard

SARA 313 Information: None of the components of this product exceed the threshold (de minimis) reporting requirements of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA 302/304 Extremely Hazardous Substance: None of the components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: None of the components of the product exceed the threshold (de minimis) reporting levels established by of these sections of Title III of SARA.

Comprehensive Response Compensation and Liability Act (CERCLA): This product contains no CERCLA reportable substances.

Clean Air Act (CAA)

This product does not contain any Hazardous Air Pollutants (HAPs) designated in CAA Section 112(b).

This product does not contain any Class 1 Ozone depletors.

This product does not contain any Class 2 Ozone depletors.

Clean Water Act (CWA)

None of the chemicals in this product are Hazardous Substances under the CWA.

None of the chemicals in this product are Priority Pollutants under the CWA.

None of the chemicals in this product are Toxic Pollutants under the CWA.

The components of this product are classified as oils under Section 311 of the CWA and the Oil Pollution Act (OPA) of 1990.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

This product may contain trace amounts of chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm: toluene, benzene, naphthalene, ethylbenzene.

Combustion products emitted when this product is burning may contain substances known to the State of California to cause cancer, birth defects or reproductive harm.

Other U.S. State Inventories

None of the components of this product are listed on any State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists.

Canada

WHMIS Hazard Symbol and Classification: Combustible liquid. May be fatal if swallowed and enters the lungs.

Canadian National Pollutant Release Inventory (NPRI): None of the components of this product are listed on the NPRI.

European Economic Community

WGK, Germany (Water danger/protection): 1 (low hazard to waters)

Global Chemical Inventory Lists

Country	Inventory Name	Inventory Listing*
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
Europe	Inventory of New and Existing Chemicals (EINECS)	Yes
United States	Toxic Substance Control Act (TSCA)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZIoC)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes

*Yes - All components of this product are in compliance with the inventory requirements administered by the governing country.

No - One or more components of this product are not on the inventory or are exempt from listing.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 - OTHER INFORMATION

Hazardous Material Information System (HMIS)

Health	1
Flammability	2
Physical Hazard	0
Personal Protection	B

B = Safety glasses and gloves

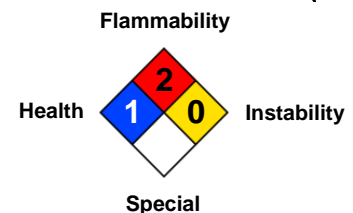
HMIS Hazard Rating Legend

0 = Minimal 1 = Slight 2 = Moderate 3 = Serious
4 = Severe * = Chronic Health Hazard

NFPA Hazard Rating Legend

0 = Insignificant 1 = Slight 2 = Moderate
3 = High 4 = Extreme

National Fire Protection Association (NFPA)



Abbreviation Key

ACGIH	American Conference of Governmental Industrial Hygienists	mppcf	Millions of Particles Per Cubic Foot
ADR	Accord Dangereux Routier (European regulations concerning the international transport of dangerous by road)	NA	North America
CAS	Chemical Abstract Services	NAERG	North American Emergency Response Guide Book
CFR	Code of Federal Regulations	NIOSH	National Institute for Occupational Safety
DOT	Department of Transportation	NTP	National Toxicology Program
EMS Guide	Emergency Response Procedures for Ships Carrying Dangerous Goods	OSHA	Occupational Safety and Health Administration
EPA	Environmental Protection Agency	PBT	Persistent, Bioaccumulating and Toxic
ERG	Emergency Response Guide Book	PEL	Permissible Exposure Limit
FDA	Food and Drug Administration	PMCC	Pensky-Martens Closed Cup
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)	ppm	Parts Per Million
HCS	Hazard Communication Standard	RCRA	Resource Conservation and Recovery Act
IARC	International Agency for Research on Cancer	RID	Dangerous Goods by Rail
IATA	International Air Transport Association	RQ	Reportable Quantity
ICAO	International Civil Aviation Organization	TCC/Tag	Tagliabue Closed Cup
IDLH	Immediately Dangerous to Life and Health	TLV	Threshold Limit Value
IMDG	International Maritime Dangerous Goods	TSCA	Toxic Substance Control Act
IMO	International Maritime Organization	TWA	Time-Weighted Average
		UN	United Nations
		VOC	Volatile Organic Compounds
		vPvB	Very Persistent and Very Bioaccumulating
		WHMIS	Workplace Hazardous Materials Information System

DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume damage or expense arising out of or in any way responsibility and expressly disclaim liability for loss, connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

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