



## SECTION 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name : STAR BRITE -73°C ANTIFREEZE

Product code : 315XX

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

Application : Consumer product. Anti-freeze and de-icing products. Coolant.

1.3. Details of the supplier of the safety data sheet

Supplier : Star Brite

4041 SW 47th Avenue

33314 Fort Lauderdale, Florida, United States of America

Telephone : 001 800 3278583 Website : http://www.starbrite.com

1.4. Emergency telephone number

EMERGENCY TELEPHONE NUMBER, for DOCTORS/FIRE BRIGADE/POLICE only:

US - Telephone : 001 703 5273887 (During office hours only)

EMERGENCY TELEPHONE NUMBER (for DOCTORS only):

CHEMTREC 001 703 5273887 (24/7)

SECTION 2 HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

HPR classification : Not classified as dangerous according to the Hazardous Products Regulations.

Human health hazards : May produce an allergic reaction in already sensitised persons.

2.2. Label elements

Label elements (HPR)

Hazard pictograms : None.

Signal word : Not applicable.

H- and P-phrases : None.

Labelling of packagings where the contents do not exceed 100 ml:

Hazard pictograms : None.

Signal word : Not applicable.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on constituents: Non-hazardous product. Hazardous substances need not be mentioned.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

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First aid measures

Inhalation : Move victim into fresh air. Consult a doctor if victim feels unwell.

Skin contact : Take off contaminated clothing. Wash off skin with plenty of water and soap before product dries up.

Consult a doctor if irritation occurs.

Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists.

Ingestion : Do not induce vomiting. Do rinse the mouth. Give one glass of water. Never give anything by mouth

to an unconscious person. Consult a doctor if victim feels unwell.

### 4.2. Most important symptoms and effects, both acute and delayed

Effects and symptoms

Inhalation : May cause headache, dizziness and a feeling of sickness. Skin contact : May produce an allergic reaction. May cause dry skin.

Eye contact : May cause stinging of eyes and redness.

Ingestion : May cause a feeling of sickness, vomiting and diarrhoea.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians : None known.

### SECTION 5 FIRE-FIGHTING MEASURES

# 5.1. Extinguishing media

Extinguishing media

Suitable : Carbondioxide (CO2). Alcohol resistant foam. Dry chemical. Water fog.

Not suitable : None known.

### 5.2. Special hazards arising from the substance or mixture

Special exposure hazards : None known.

Hazardous thermal : Carbon monoxide may be evolved if incomplete combustion occurs.

decomposition products

## 5.3. Advice for firefighters

Special protective : Use adequate respiratory equipment in case of insufficient ventilation.

equipment for fire-fighters

# SECTION 6 ACCIDENTAL RELEASE MEASURES

## 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions : Danger of slipping. Clean up spills immediately. Wear shoes with non-slip soles. Vapours are

heavier than air. Build up (of gasses) in low areas involves risk of suffocation.

### 6.2. Environmental precautions

Environmental precautions : Avoid release of product into sewers, surface water and/or ground water. In case of large spills:

contain with dike.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Collect spilled material in containers. Absorb residues in sand or other inert material. Dispose at an

authorised waste collection point. Wash away remainder with plenty of water and soap.

### 6.4. Reference to other sections

Reference to other sections: See also section 8.

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## SECTION 7 HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Handling : Handle in accordance with good occupational hygiene and safety practices in well-ventilated areas.

Do not breathe vapour. Avoid contact with skin and eyes. Avoid splashing. Wear protective clothing.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents.

Recommended packaging : Keep only in the original container. Non recommended : Steel (except stainless steel).

packaging

7.3. Specific end use(s)

Use : Use only as directed.

# SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

Occupational exposure

: Occupational exposure limits have not been established for this product.

limits

Workplace exposure limits (mg/m³):

Chemical name	Province	TWA 8 hour	STEL 15 min	Comments	Source
		(mg/m3)	(mg/m3)		
Glycerol	ΥT	10	-	mist	Yukon Occupational
					Health Regulations
Glycerol	SK	10	20	mist	Occupational Health and
					Safety, 1996
Glycerol	ВС	10	-	mist	Table of exposure limits
					for chemical and biological
					substances
Glycerol	QC	10	-	mist	GESTIS
Glycerol	ON	10	-	mist	GESTIS
Glycerol	US	15	-	inhalable dust, respirable	OSHA
				dust: TWA 8 hour: 5 mg/m3	
Propyleneglycol	ON	155	-	Total Vapour and	GESTIS
				Particulates	

### 8.2. Exposure controls

Engineering measures : Use only in well-ventilated areas. Comply with standard precautionary measures for working with

chemicals.

Hygienic measures : When using do not eat, drink or smoke.

Personal protective equipment:

The efficiency of personal protective equipment depends among other things on temperature and degree of ventilation. Always get professional advice for the particular local situation.

Body protection : Use of specific protective industrial clothing is not required under normal conditions of use. In

case of large scale exposure wear suitable protective clothing, overalls or suit, and similar boots.

Suitable material: nitril. Indication of permeation breakthrough time: 6 hours.

Respiratory protection: Take care of sufficient ventilation. Wear suitable respiratory protection in case of large scale

exposure. Suitable: gas filter type A (brown), class I or higher on e.g. a facemask in accordance

with CSA Z94.4.

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# SAFETY DATA SHEET

# According to the Hazardous Products Regulation 2015

Hand protection : Under normal conditions of use specific gloves are not required. Wear appropriate gloves in case of

frequent or prolonged use and in case of large scale exposure. Suitable material: nitril. ± 0,5 mm.

Indication of permeation breakthrough time: 6 hours.

Eye protection : Wear appropriate safety glasses when there is danger of possible eye contact.

#### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

Appearance : Liquid.
Colour : Green.
Odour : Characteristic.
Odour threshold : Not known.

pH : 8 Solubility in water : Soluble.

Partition coefficient (n- : Not known.

octanol/water)
Flash point

Not known. Not measured. Not relevant for mixtures.

: > 100 °C Closed Cup (ISO 2719, EN 11, DIN 51758, ASTM D 93) : Not applicable. Liquid. See flashpoint.

Flammability (solid, gas) : Not applicable.

Auto ignition temperature : > 180 °C Boiling point/boiling range : 100 °C Melting point/melting range : < -20 °C

Explosive properties : None known. Does not contain explosives.

Explosion limits (% in air) : Not known. Lower explosion limit in air (%): 2,6 ( Propyleneglycol )

Upper explosion limit in air (%): 19 ( Glycerol )

Oxidising properties : Not applicable. Does not contain oxidizing substances.

Decomposition temperature : Not applicable.

Viscosity (20°C) : Not known.

Viscosity (40°C) : Not relevant. The product contains < 10% substances having an aspiration hazard.

(air = 1)

Vapour pressure (20°C) : Not known.

Vapour density (20°C) : > 1

Relative density (20°C) : 1,095 g/ml

Evaporation rate : Not known. (n-butyl acetate = 1)

9.2. Other information

Other information : Not relevant.

### SECTION 10 STABILITY AND REACTIVITY

## 10.1. Reactivity

Reactivity : See sub-sections below.

10.2. Chemical stability

Stability : Stable under normal conditions.

## 10.3. Possibility of hazardous reactions

Reactivity : No other hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid : See section 7.

10.5. Incompatible materials

Materials to avoid : Keep away from oxidizing agents.

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### 10.6. Hazardous decomposition products

Hazardous decomposition : Not known.

products

#### SECTION 11 TOXICOLOGICAL INFORMATION

#### 11.1. Information on toxicological effects

No toxicological research has been carried out on this product.

Inhalation

Acute toxicity : Calculated LC50: > 10 mg/l. Ingredients of unknown toxicity: < 1 %. ATE: > 5 mg/l. Low toxicity. Not

classified - based on available data, the classification criteria are not met. May cause headache,

dizziness and a feeling of sickness.

Corrosion/irritation : Not classified - based on available data, the classification criteria are not met.

Sensitisation : Does not contain substances classified as respiratory sensitiser. Not classified - based on available

data, the classification criteria are not met.

Carcinogenicity : Not classified - based on available data, the classification criteria are not met.

Mutagenicity : Not classified - based on available data, the classification criteria are not met.

Skin contact

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not

met.

Sensitisation : May produce an allergic reaction.

Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria

are not met.

Eye contact

Corrosion/irritation : Slight irritation possible. Not classified - based on available data, the classification criteria are not

met.

Ingestion

Acute toxicity : Calculated LD50: > 5000 mg/kg.bw. Ingredients of unknown toxicity: < 1 %. ATE: > 2000 mg/kg.bw.

Low toxicity. Not classified - based on available data, the classification criteria are not met.

Aspiration : Not classified - based on available data, the classification criteria are not met. Does not contain

substances with an aspiration hazard.

Corrosion/irritation : May cause a feeling of sickness, vomiting and diarrhoea.

Carcinogenicity : Not expected to be carcinogenic. Not classified - based on available data, the classification criteria

are not met.

Mutagenicity : Not expected to be mutagenic. Not classified - based on available data, the classification criteria

are not met.

Reprotoxicity : Development: Not expected to be reprotoxic. Development: Not classified - Based on available

data, the classification criteria are not met. Fertility: not expected to be reprotoxic. Fertility: Not

classified - based on available data, the classification criteria are not met.

## SECTION 12 ECOLOGICAL INFORMATION

# 12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Calculated LC50 (fish): 6218 mg/l. Calculated EC50 (waterflea): 6206 mg/l. Contains 0 % of

components with unknown hazards to the aquatic environment.

## 12.2. Persistence and degradability

Persistence - degradability: No specific information known.

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### 12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : If product enters soil, it will be highly mobile and may contaminate groundwater.

12.6. Other adverse effects

Other information : Not applicable.

### SECTION 13 DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

Product residues : Do not dispose empty pack with waste produced by households. Containers may be recycled. Treat

product residues and non-empty pack as chemical waste. Dispose waste to an official chemical

waste depot.

: None.

Additional warning

Waste water discharge

Do not dispose into the environment, in drains or in water courses.

Local legislation

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Local regulations may be more stringent than regional or national requirements and must be

complied with.

# SECTION 14 TRANSPORT INFORMATION

#### 14.1. UN number

UN nr. : None.

#### 14.2. UN proper shipping name

Transport name : Not regulated.

# 14.3/14.4/14.5. Transport hazard class(es)/Packing group/Environmental hazards

TDG (land)

Class : This product is not classified according to TDG.

IMDG (sea)

Class : This product is not classified according to IMDG.

Marine pollutant : No

IATA (air)

Class : This product is not classified according to IATA.

# 14.6. Special precautions for user

Other information : Country specific variations may apply.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Marpol : Not intended to be carried in bulk according to International Maritime Organisation (IMO)

instruments. Packaged liquids are not considered bulk.

# SECTION 15 REGULATORY INFORMATION

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

Regulations : Hazardous Products Regulation 2015 and other regulations.

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Substances listed on Canadian Domestic Substances List (DSL)

: Glycerol ; Propyleneglycol

#### SECTION 16 OTHER INFORMATION

#### 16.1. Other information

The information in this safety data sheet is compiled in compliance with the Hazardous Products Regulation 2015 and accurate to the best of our knowledge and experience at the date of issue specified. It is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of the product. This safety data sheet complements the technical information sheets but does not replace them and offers no warranty with regard to product properties.

Users are also forewarned for any hazards involved when the product is used for other purposes than those for which it is designed.

Changed or new information with regard to the previous release is indicated with an asterisk (\*).

List of abbreviations and acronyms that could be (but not necessarily are) used in this safety data sheet:

ATE : Acute Toxicity Estimate

CMR : Carcinogenic, Mutagenic or toxic for Reproduction

DSL : Domestic Substances List

GHS : Globally Harmonized System of Classification and Labelling of Chemicals

HPA : Hazardous Products Act

HPR : Hazardous Products Regulations
IATA : International Air Transport Association
IBC code : International Bulk Chemical Code

IMDG : International Maritime Dangerous Goods Code LD50/LC50 : Lethal Dose/Concentration for 50% of a population

MARPOL : International Convention for the Prevention of Pollution From Ships

NO(A)EL : No Observed (Adverse) Effect Level

OECD : Organisation for Economic Co-operation and Development OSHA : United States Occupational Safety and Health Administration

PBT : Persistent, Bioaccumulative and Toxic

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulations concerning the International Carriage of Dangerous Goods by Rail

STP : Sewage Treatment Plant

TDG : Transportation of Dangerous Goods

TWA/STEL : Time-Weighted Average/Short Term Exposure Limit

UN : United Nations

VOC : Volatile Organic Compounds

vPvB : Very Persistent and Very Bioaccumulative

WHMIS : Workplace Hazardous Materials Information System

Key data used to compile the Safety Data Sheet are from, but not limited to, one or more sources of information e.g. toxicological data from material suppliers, CONCAWE, IFRA, CESIO, Regulation EG 1272/2008, etc.

Advice on any training appropriate for workers: none.

Number format : "," used as decimal separator.

End of safety data sheet.

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