



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

1.1. Product identifier

Product name : STAR BRITE STAR-TRON SMALL ENGINE FORMULA DIESEL ADDITIVE

Product code : 144XX

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

Application : Consumer product. Engine maintenance.

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 : Aspiration hazard, category 1. Flammable liquid, category 4.

Human health hazards : May be fatal if swallowed and enters airways.

Physical/chemical hazards : Combustible liquid.

2.2. Label elements

Label elements (HPR) Hazard pictograms



Signal word : Danger

H- and P-phrases : H304 May be fatal if swallowed and enters airways.

H227 Combustible liquid.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P103 Read label before use.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.

P370+P378 In case of fire: Use carbondioxide, foam, dry chemical, water fog to extinguish.

P331 Do NOT induce vomiting.
P403 Store in a well-ventilated place.

P405 Store locked up.

Product name : Star brite STAR-TRON Small Engine Formula Diesel Additive Page 1/9
Date of issue : 20-07-2018 Replaces issue dated : --- INFO CARE SDS





P501 Dispose of contents/container to an official chemical waste depot.

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

Hazard pictograms

Signal word : Danger

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2. Mixtures

Product description : Mixture.

Information on hazardous substances:

Substance name	Concentration (w/w%)	CAS nr.	Additional CAS
			nr.
Distillates (petroleum), hydro- treated	5 - 10	64742-47-8	
light			
Hydrocarbons, C11-14, n-alkanes,	80 - 100		64742-47-8
isoalkanes, cyclics, < 2% aromatics			

Occupational exposure limit(s), if relevant, are listed in section 8. The actual concentration has been withheld as a trade secret.

SECTION 4 FIRST-AID MEASURES

4.1. Description of first aid measures

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 persists.

Eye contact : Wash out with (lukewarm) water. Remove contact lenses. Consult a doctor if irritation persists. Ingestion : Do not induce vomiting. Give nothing to drink. Do rinse the mouth. As necessary give 1 or 2

soupspoons of laxative (sodium sulphate). Never give anything by mouth to an unconscious

person. Consult a doctor immediately 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 : Repeated exposure may cause skin dryness or cracking.

Eye contact : May cause stinging of eyes and redness.

Ingestion : May cause a feeling of sickness, vomiting and diarrhoea. May cause lung damage, sore throat and

lack of breath.

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). Foam. Dry chemical. Water fog.

Product name : Star brite STAR-TRON Small Engine Formula Diesel Additive Page 2/9





Not suitable : Water jet.

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. Avoid contact with

spilled or released material. 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. Waste product should not be allowed to contaminate soil or water.

Other information : Notify authorities if any exposure to the general public or the environment occurs or is likely to

occur.

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.

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.

Keep away from sources of ignition — No smoking. 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 frost-free, in a cool, dry and well-ventilated place (< 35 °C). Keep away from oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

Recommended packaging : Keep only in the original container.

Non recommended

: PE and PP.

packaging

7.3. Specific end use(s)

Use : Use only as directed.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Product name : Star brite STAR-TRON Small Engine Formula Diesel Additive Page 3/9
Date of issue : 20-07-2018 Replaces issue dated : --- INFO CARE SDS





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)		
Distillates (petroleum), hydro-	ВС	200	-	Skin. Restricted to	Table exposure limits
treated light				conditions in which there	chemical biological
				are negligible aerosol	substances
				exposures.	
Hydrocarbons, C11-14, n-	ВС	200	-	Skin. Restricted to	Table exposure limits
alkanes, isoalkanes, cyclics, <				conditions in which there	chemical biological
2% aromatics				are negligible aerosol	substances
				exposures.	

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.

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

frequent or prolonged use and in case of large scale exposure. Suitable material: nitril. \pm 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 : Colourless.
Odour : Characteristic.
Odour threshold : Not known.

pH : Not applicable. Waterfree product.

Solubility in water : Not soluble.

Partition coefficient (n- : Not known. Not measured. Not relevant for mixtures.

octanol/water)

Flash point : 79 °C

Flammability (solid, gas) : Not applicable. Liquid. See flashpoint.

Auto ignition temperature : > 200 °C
Boiling point/boiling range : 148 - 290 °C
Melting point/melting range : Not known.

Explosive properties : None known. Does not contain explosives.

Explosion limits (% in air) : Not known.

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

Viscosity (40°C) : 1,8 - 1,92 mm2/sec

Product name : Star brite STAR-TRON Small Engine Formula Diesel Additive Page 4/9





Vapour pressure (20°C) : 13 Pa Vapour density (20°C) : 4,5 - 5,0

Relative density (20°C) : 0,795 - 0,803 g/ml

Evaporation rate : < 1 (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.

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: > 5,445 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 expected to be carcinogenic. Not classified - based on available data, the classification criteria

are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Skin contact

Acute toxicity : Calculated LD50: > 2200 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. Repeated exposure may cause skin dryness or cracking. Prolonged

contact may dry out and defat the skin. Not classified - based on available data, the classification

criteria are not met.

Sensitisation : Does not contain skin sensitisers. Not classified - based on available data, the classification criteria

are not met.

Product name : Star brite STAR-TRON Small Engine Formula Diesel Additive Page 5/9
Date of issue : 20-07-2018 Replaces issue dated : --- INFO CARE SDS



Test animal



According to the Hazardous Products Regulation 2015

Mutagenicity : Does not contain mutagenic substances. 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: > 4401 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 : Aspiration into the lungs when swallowed or vomited may cause chemical pneumonitis which can

be fatal. If swallowed, if any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 38.3° C, shortness of breath,

chest congestion or continued coughing or wheezing.

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

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

are not met.

Mutagenicity : Does not contain mutagenic substances. Not classified - based on available data, the classification

criteria are not met.

Property

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

Method

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

Toxicological information:

Chemical name

Onemical name	roperty		INICTIOG	i Cot ai iii ii ai
Distillates (petroleum), hydro- treated	LC50 (inhalation) -	> 5280 mg/m3	Read across	Rat
light	estimate			
	NOEL (carcinogenicity)	Not carcinogenic	Read across	
	- estimate			
	NOAEL (inhalation) -	> 1000 mg/m3	Read across	Mouse
	estimate			
	NOAEL (oral) -	750 mg/kg bw/d	Read across	Rat
	estimate			
	Genotoxicity - estimate	Not genotoxic	Read across	Mouse
	Skin sensitisation -	Not sensitizing	Read across	Guinea pig
	estimate			
	LD50 (dermal) -	> 2000 mg/kg bw		Rabbit
	estimate			
	Skin irritation - estimate	Irritant	Read across	Rabbit
	Eye irritation - estimate	Non-irritant	Read across	Rabbit
	Mutagenicity - estimate	Negative	Read across	Salmonella typhimurium
	NOAEL (fertility) -	1500 mg/kg.d	Read across	Rat
	estimate			
	NOAEL (development)	500 mg/kg.d	Read across	Rat
	- estimate			
		> 5000 mg/kg bw	Read across	Rat
Hydrocarbons, C11-14, n-alkanes,	1 '	> 2200 mg/m3	Read across	Rat
isoalkanes, cyclics, < 2% aromatics	estimate			
	1 '	> 5000 mg/m3		
		Not teratogenic		
	- estimate			
	NOAEL (fertility) -	Not reprotoxic		
	estimate			
	LD50 (dermal)		1	
	Skin irritation	Non-irritant		Rabbit
	Eye irritation			Rabbit
	Skin sensitisation	Not sensitizing		
	LD50 (oral)	> 5000 mg/kg bw	OECD 401	Rat
	estimate LD50 (dermal) Skin irritation Eye irritation Skin sensitisation	Not reprotoxic > 2000 mg/kg bw Non-irritant Non-irritant	OECD 402 OECD 404 OECD 405 OECD 406 OECD 401	Rat Rabbit Rabbit Rabbit Rat

Product name : Star brite STAR-TRON Small Engine Formula Diesel Additive Page 6/9





,	·····		Rat Rat
estimate			
Mutagenicity - estimate	Not mutagenic	Read across	
Respiratory irritation -	Non-irritant		
estimate			
NOEL (carcinogenicity)	Not carcinogenic		
- estimate			

SECTION 12 ECOLOGICAL INFORMATION

12.1. Toxicity

No ecotoxicological research has been carried out on this product.

Ecotoxicity : Harmful to aquatic organisms. Calculated LC50 (fish): 21 mg/l. Calculated EC50 (waterflea): 15

mg/l. Contains 0 % of components with unknown hazards to the aquatic environment. May form an oil film on the water surface causing a decline in oxygen content with possible adverse effects for

aquatic organisms.

12.2. Persistence and degradability

Persistence – degradability: May cause long-term adverse effects in the aquatic environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : No specific information known.

12.4. Mobility in soil

Mobility : Adsorbs to soil and has low mobility. Floats on water.

12.6. Other adverse effects

Other information : Not applicable.

Ecological information:

Chemical name	Property		Method	Test animal
Distillates (petroleum), hydro- treated light	LC50 (fish) - estimate	> 2 mg/l	OECD 203	Oncorhynchus mykiss
	EC50 (waterflea) - estimate	1,4 mg/l	OECD 202	Daphnia magna
	IC50 (algea) - estimate	> 1 mg/l		Pseudokirchnerella subcapitata
	NOEC (waterflea) - chronic	0,48 mg/l.d	OECD 211	Daphnia magna
	Ultimate aerobic biodegradation (%)	58,6 %	OECD 301 F	
	NOEC (fish)	2 mg/l	OECD 203	Oncorhynchus mykiss
	NOEC (waterflea) - acute	0,3 mg/l	OECD 202	Daphnia magna
	NOEC (fish) - estimate Log P(ow)	0,098 mg/l.d > 6		Oncorhynchus mykiss
	BCF	537		

SECTION 13 DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Product name : Star brite STAR-TRON Small Engine Formula Diesel Additive Page 7/9





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

product residues and non-empty pack as hazardous waste.

Additional warning : None.

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.

Substances listed on Canadian Domestic Substances List (DSL)

: Distillates (petroleum), hydro- treated light ; Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclics,

< 2% aromatics

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.

Product name : Star brite STAR-TRON Small Engine Formula Diesel Additive Page 8/9





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

Number format : "," used as decimal separator.

End of safety data sheet.

Product name : Star brite STAR-TRON Small Engine Formula Diesel Additive Page 9/9

Date of issue : 20-07-2018 Replaces issue dated : --- INFO CARE SDS