

SAFETY DATA SHEET

1. Identification

Starbrite Home Rust Stain Re	mover
50201, 50232	
Cleaner	
None known.	
Distributor information	
Star brite Inc. 4041 SW 47th Avenue Fort Lauderdale, FL 33314 US	
General Information: Not available. Vincent Waclawek 24-Hour Emergency:	(954) 587-6280 CHEMTREC: (703) 527-3887 or (800) 424-9300
	Cleaner None known. Distributor information Star brite Inc. 4041 SW 47th Avenue Fort Lauderdale, FL 33314 US General Information: Not available. Vincent Waclawek

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 4
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
OSHA defined hazards	Not classified.	

Label elements



Signal word	Warning
Hazard statement	Combustible liquid. Causes skin irritation. Causes serious eye irritation.
Precautionary statement	
Prevention	Keep away from heat/sparks/open flames/hot surfaces No smoking. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing mist or vapor. Wash thoroughly after handling. Avoid release to the environment.
Response	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Take off contaminated clothing and wash before reuse.
Storage	Keep locked-up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Oxalic acid	144-62-7	8
Ethylene glycol n-butyl ether	111-76-2	4.5

4. First-aid measures

Inhalation	If symptomatic, move to fresh air. Get medical attention if symptoms persist.
Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.
Ingestion	Seek medical advice.
Most important symptoms/effects, acute and delayed	Causes skin and eye irritation. May cause respiratory tract irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	Combustible liquid and vapor.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus, operated in positive pressure mode and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do it without risk.
Specific methods	Use water spray to cool unopened containers.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear protective clothing as described in Section 8 of this safety data sheet. Ensure adequate ventilation. Ventilate closed spaces before entering them. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas. Dike the spilled material, where this is possible. Collect spillage. Do not allow material to contaminate ground water system.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).
	Large Spills: Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
	Never return spills to original containers for re-use. Following product recovery, flush area with water. This material and its container must be disposed of as hazardous waste. Clean up in accordance with all applicable regulations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
7. Handling and storage	
Precautions for safe handling	Keep away from heat, spark, open flames and other sources of ignition. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Wear personal protective equipment. Use only with adequate ventilation. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Keep locked-up. Keep container tightly closed and in a well-ventilated place. Do not handle or store near an open flame, heat or other sources of ignition. Keep out of the reach of children. Keep

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре	Value	
Ethylene glycol n-butyl ether (CAS 111-76-2)	PEL	240 mg/m3	
		50 ppm	

away from food, drink and animal feedingstuffs.

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

Components	Туре		V	/alue
Oxalic acid (CAS 144-62-7	7) PEL		1	mg/m3
US. ACGIH Threshold Li	mit Values			
Components	Туре		V	/alue
Ethylene glycol n-butyl ether (CAS 111-76-2)	TWA		2	20 ppm
Oxalic acid (CAS 144-62-				2 mg/m3
	TWA		1	mg/m3
US. NIOSH: Pocket Guid	e to Chemical Hazards			
Components	Туре		V	/alue
Ethylene glycol n-butyl ether (CAS 111-76-2)	TWA			24 mg/m3
0				5 ppm
Oxalic acid (CAS 144-62-	7) STEL TWA	-		2 mg/m3 mg/m3
a la sila al lincit contorna	IWA		I	ing/ins
ological limit values ACGIH Biological Expos	uro Indicos			
Components	Value	Determinant	Specimen	Sampling Time
Ethylene glycol n-butyl ether (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*
* - For sampling details, pl	ease see the source docu	ument.		
cposure guidelines	No exposure standa	ards allocated.		
US - California OELs: Sk	in designation			
Ethylene glycol n-buty US - Minnesota Haz Sub	/l ether (CAS 111-76-2) s: Skin designation app		e absorbed thro	ough the skin.
Ethylene glycol n-buty US - Tennesse OELs: Sk	/l ether (CAS 111-76-2) i n designation	Skin o	lesignation appl	lies.
Ethylene glycol n-buty US. NIOSH: Pocket Guid	/l ether (CAS 111-76-2) e to Chemical Hazards	Can b	e absorbed thro	ough the skin.
Ethylene glycol n-buty US. OSHA Table Z-1 Lim	/l ether (CAS 111-76-2) its for Air Contaminants		e absorbed thro 000)	ough the skin.
Ethylene glycol n-buty	/l ether (CAS 111-76-2)	Can b	e absorbed thro	bugh the skin.
opropriate engineering ontrols	ventilation, or other limits. Provide adeq ventilation (typically to conditions. If app	engineering contr uate ventilation. G 10 air changes pe licable, use proces airborne levels be	ols to control air General ventilation er hour) should ss enclosures, lo elow recommen	reas. Use process enclosures, local exhaust rborne levels below recommended exposure on normally adequate. Good general be used. Ventilation rates should be matched ocal exhaust ventilation, or other engineering ded exposure limits. If exposure limits have acceptable level.
dividual protection measu				
Eye/face protection	Wear safety glasses	s with side shields	(or goggles).	
Skin protection		.		
Hand protection		-		nmended by the glove supplier.
Other				e-retardant protective clothing is that is specifically recommended by the
Respiratory protection		acing concentratio	ons above the e	xposure limit they must use appropriate
	certified respirators.			

General hygiene	Always observe national occupational health and hygiene requirements including requirements for
considerations	medical surveillance.

9. Physical and chemical properties

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Appearance	Clear liquid.
Physical state	Liquid.
Form	Liquid.
Color	Clear.
Odor	Sweet. Pleasant.
Odor threshold	Not available.
рН	1 Approx.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	153.9 °F (67.7 °C)
Evaporation rate	Similar to water.
Flammability (solid, gas)	Not available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.01 @ 20 °C
Solubility(ies)	
Solubility (water)	Completely soluble.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Percent volatile	Not available.
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable at normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat, sparks, flames, elevated temperatures. Contact with incompatible materials.
la second dible meteolole	Chrone evidining exercise Chlorites and hyperblarites

- Incompatible materials Strong oxidizing agents. Chlorites and hypochlorites.
- Hazardous decomposition No hazardous decomposition products are known. products

11. Toxicological information

Information on likely routes of exposure

Ingestion	No harmful effects expected in amounts likely to be ingested by accident.
Inhalation	May cause respiratory tract irritation.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.

Starbrite Home Rust Stain Remover

Symptoms related to the Irritant effects. physical, chemical and toxicological characteristics

Acute toxicity	Not classified.		
Components	Species		Test Results
Ethylene glycol n-butyl ether (CAS	111-76-2)		
Acute			
Dermal			
LD50	Rabbit		400 mg/kg
Inhalation			
LC50	Mouse		700 mg/l, 7 Hours
	Rat		450 mg/l, 4 Hours
Oral			
LD50	Guinea pig		1.2 g/kg
	Mouse		1.2 g/kg
	Rabbit		0.32 g/kg
	Rat		560 mg/kg
Other	indi		500 mg/kg
<i>Other</i> LD50	Mouse		1130 mg/kg
	Rabbit		280 mg/kg
	Rat		340 mg/kg
Oxalic acid (CAS 144-62-7)			
Acute			
Oral			
LC50	Rat		375 mg/kg
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye rritation	Causes serious eye irritation	on.	
Respiratory or skin sensitization			
Respiratory sensitization	Not classified.		
Skin sensitization	Not classified.		
Germ cell mutagenicity	Not classified.		
Carcinogenicity	This product is not conside	ered to be a carcinogen by IA	ARC, ACGIH, NTP, or OSHA.
IARC Monographs. Overall E	-		
Ethylene glycol n-butyl eth	-	•	carcinogenicity to humans.
Reproductive toxicity	Not classified.		J
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Not classified.		
12. Ecological information			
Ecotoxicity	Not expected to be harmfu	Il to aquatic organisms.	
	Species		Test Results
Components	Species		
Components Ethylene glycol n-butyl ether (C Aquatic	-		

Components	Species	Test Results		
Oxalic acid (CAS 144-62-7)				
Aquatic				
Crustacea	EC50 Water flea (Daphnia magna)	125 - 150 mg/l, 48 hours		
Persistence and degradability	Not established.			
Bioaccumulative potential	Not established.			
Partition coefficient n-octand Ethylene glycol n-butyl ether (
Mobility in soil	Not established.			
Other adverse effects	Not established.			
13. Disposal consideration	IS			
Disposal instructions	Dispose of contents/container in accordance with lo	cal/regional/national/international regulations.		
Hazardous waste code	The waste code should be assigned in discussion b	etween the user, the producer and the waste		
	disposal company.			
Waste from residues / unused products	Dispose in accordance with applicable federal, state	e, and local regulations.		
Contaminated packaging	Offer rinsed packaging material to local recycling fa	cilities.		
14. Transport information				
DOT				
UN number	NA1993			
UN proper shipping name	Combustible liquids, n.o.s. (Ethylene glycol n-butyl	ether)		
Transport hazard class(es)				
Class	Combustible Liquid			
Subsidiary risk	-			
Packing group	III - Natovalakia			
Special precautions for user Special provisions				
Packaging exceptions	B1, B52, IB3, T4, TP1, TP29 150			
Packaging non bulk	203			
Packaging bulk	242			
ΙΑΤΑ				
Not regulated as dangerous go	oods.			
IMDG				
Not regulated as dangerous go	oods.			
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not available.			
15. Regulatory information	15. Regulatory information			
US federal regulations	This product is hazardous according to OSHA 29 C	FR 1910.1200.		
TSCA Section 12(b) Export N	Notification (40 CFR 707, Subpt. D)			
Oxalic acid (CAS 144-62-	7) 1.0 % One-Time Ex	port Notification only.		

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Ethylene glycol n-butyl ether (CAS 111-76-2)

LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	Yes		
SARA 313 (TRI reporting) Chemical name	~	AS number	0/ http://
Ethylene glycol n-butyl		11-76-2	<u>% by wt.</u> 4.5
ther federal regulations		11-70-2	т.0
-	n 112 Hazardous Air Pollutants (HAPe) jet	
Not regulated.			
	n 112(r) Accidental Release Prev	ention (40 CFR	68.130)
Not regulated.			
Safe Drinking Water Act (SDWA)	Not regulated.		
S state regulations	This product does not contain a defects or other reproductive ha		to the State of California to cause cancer, birth
US. Massachusetts R1	K - Substance List		
Oxalic acid (CAS 1		• -	
-	er and Community Right-to-Know	Act	
Oxalic acid (CAS 1	utyl ether (CAS 111-76-2) 44-62-7) ker and Community Right-to-Kno	wlaw	
-	utyl ether (CAS 111-76-2) 44-62-7)		
Ethylene glycol n-b	utyl ether (CAS 111-76-2)		
US. California Proposition	· · · ·		
US - California Propos	ition 65 - Carcinogens & Reprodu	uctive Toxicity ((CRT): Listed substance
Not listed.	······································		()
ternational Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)
Australia	Australian Inventory of Chemica	I Substances (Al	
Canada	Domestic Substances List (DSL	-	Yes
Canada	Non-Domestic Substances List	(NDSL)	No
China	Inventory of Existing Chemical S	Substances in Ch	nina (IECSC) Yes
Europe	European Inventory of Existing (Substances (EINECS)	Commercial Che	mical Yes
Europe	European List of Notified Chemi	cal Substances ((ELINCS) No
Japan	Inventory of Existing and New C	hemical Substar	nces (ENCS) Yes
Korea	Existing Chemicals List (ECL)		Yes
New Zealand	New Zealand Inventory		Yes
Philippines	Philippine Inventory of Chemica (PICCS)	ls and Chemical	Substances Yes

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	15-May-2014
Revision date	-
Version #	01

Yes



References	ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
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