

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/09/2017

Reviewed on 07/09/2017

Product Identifier

- **Trade name:** Sun Joe - Degreaser
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description** Degreaser
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**

Glissen Chemical Company

1321 58th Street

Brooklyn, NY 11219

Phone: 718-436-0022

WWW.GLISSENCHEMICAL.COMGLISSENCHEMICAL@AOL.COM

EMERGENCY TELEPHONE: 1-800-752-7869

Classification of the substance or mixture:

- | | |
|-------------------|---|
| Skin Irrit. 2 | H315 Causes skin irritation. |
| Eye Irrit. 2A | H319 Causes serious eye irritation. |
| Aquatic Acute 3 | H402 Harmful to aquatic life. |
| Aquatic Chronic 3 | H412 Harmful to aquatic life with long lasting effects. |

Label elements:**GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:

GHS07

Signal word: Warning**Hazard statements:**

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H402 Harmful to aquatic life.
- H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

- | | |
|----------------|--|
| P264 | Wash thoroughly after handling. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves / eye protection / face protection. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P305+P351+P338 | If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P321 | Specific treatment (see supplementary first aid instructions on this Safety Data Sheet). |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |

(Contd. on page 2)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/09/2017

Reviewed on 07/09/2017

Trade name: Sun Joe - Degreaser

P337+P313 If eye irritation persists: Get medical advice/attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.
 0 % of the mixture consists of component(s) of unknown toxicity.

· Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme**· NFPA ratings (scale 0 - 4)**

Health = 1
 Fire = 0
 Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH	1
FIRE	0
REACTIVITY	0

Health = 1
 Fire = 0
 Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known**3 Composition/Information on Ingredients****· Chemical characterization: Mixtures****· Description:** Mixture of substances listed below with non-hazardous additions.**· Dangerous Components:**

CAS: 111-76-2 RTECS: KJ 8575000	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	Proprietary%
CAS: 1643-20-5 RTECS: JR 6650000	Mazox CG ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319	Proprietary%
CAS: 10213-79-3	Sodium Metasilicate Pentahydrate ⚠ Skin Corr. 1C, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; STOT SE 3, H335	Proprietary%
CAS: 64-02-8 RTECS: AH 5075000	Tetrasodium ethylenediaminetetraacetate ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	Proprietary%
CAS: 9043-30-5	Ethoxylated Alcohol ⚠ Acute Tox. 4, H302; Eye Irrit. 2B, H320	Proprietary%

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures**· Description of first aid measures:****· After inhalation:** Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.**· After skin contact:**

Immediately wash with water and soap and rinse thoroughly.
 If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water.

(Contd. on page 3)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/09/2017

Reviewed on 07/09/2017

Trade name: Sun Joe - Degreaser

If easy to do so, remove contact lenses if worn.

If eye irritation occurs, consult a doctor.

• **After swallowing:**

Do not induce vomiting without medical advice.

If swallowed and symptoms occur, consult a doctor.

• **Information for doctor:**

• **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

• **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

5 Fire-Fighting Measures

• **Extinguishing media:**

• **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

• **Special hazards arising from the substance or mixture:** No further relevant information available.

• **Advice for firefighters:**

• **Protective equipment:**

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

• **Personal precautions, protective equipment and emergency procedures:** Not required.

• **Environmental precautions:** Do not allow to enter sewers/surface or ground water.

• **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the collected material according to regulations.

• **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

• **Protective Action Criteria for Chemicals**

• **PAC-1:**

111-76-2	2-butoxyethanol	60 ppm
10213-79-3	Sodium Metasilicate Pentahydrate	6.6 mg/m ³
64-02-8	Tetrasodium ethylenediaminetetraacetate	75 mg/m ³
7173-51-5	Didecyldimethylammonium chloride	0.82 mg/m ³
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	1.3 mg/m ³
64-17-5	Ethanol	1,800 ppm

• **PAC-2:**

111-76-2	2-butoxyethanol	120 ppm
10213-79-3	Sodium Metasilicate Pentahydrate	73 mg/m ³
64-02-8	Tetrasodium ethylenediaminetetraacetate	830 mg/m ³
7173-51-5	Didecyldimethylammonium chloride	9 mg/m ³
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	14 mg/m ³
64-17-5	Ethanol	3300* ppm

• **PAC-3:**

111-76-2	2-butoxyethanol	700 ppm
10213-79-3	Sodium Metasilicate Pentahydrate	440 mg/m ³

(Contd. on page 4)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/09/2017

Reviewed on 07/09/2017

Trade name: Sun Joe - Degreaser

64-02-8	Tetrasodium ethylenediaminetetraacetate	5,000 mg/m ³
7173-51-5	Didecyldimethylammonium chloride	17 mg/m ³
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	84 mg/m ³
64-17-5	Ethanol	15000* ppm

7 Handling and Storage• **Handling**

- **Precautions for safe handling:** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.

• **Conditions for safe storage, including any incompatibilities:**• **Storage**

- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:**
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- **Further information about storage conditions:** None.
- **Specific end use(s):** No further relevant information available.

8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.

• **Control parameters:**• **Components with occupational exposure limits:**

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

111-76-2 2-butoxyethanol

PEL	Long-term value: 240 mg/m ³ , 50 ppm Skin
REL	Long-term value: 24 mg/m ³ , 5 ppm Skin
TLV	Long-term value: 97 mg/m ³ , 20 ppm BEI

• **Ingredients with biological limit values:****111-76-2 2-butoxyethanol**

BEI	200 mg/g creatinine urine end of shift Butoxyacetic acid with hydrolysis
-----	---

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

• **Exposure controls:**• **Personal protective equipment:**• **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.
Wash hands before breaks and at the end of work.

- **Breathing equipment:** Not required.

(Contd. on page 5)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/09/2017

Reviewed on 07/09/2017

Trade name: Sun Joe - Degreaser**Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Select glove material based on penetration times, rates of diffusion and degradation.

Material of gloves:

Chemical resistant

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:

Safety glasses

Limitation and supervision of exposure into the environment:

Keep away from drains, surface and ground waters.
Avoid release into the environment.

9 Physical and Chemical Properties**Information on basic physical and chemical properties****General Information****Appearance:**

Form:	Liquid
Color:	Colorless
Odor:	Odorless
Odor threshold:	Not determined.

pH-value @ 20 °C (68 °F): 11.9

Change in condition

Melting point/Melting range:	Not determined.
Boiling point/Boiling range:	100 °C (212 °F)

Flash point: None

Flammability (solid, gaseous): Not applicable.

Ignition temperature: Not applicable

Decomposition temperature: Not determined.

Auto igniting: Product is not self-igniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

(Contd. on page 6)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/09/2017

Reviewed on 07/09/2017

Trade name: Sun Joe - Degreaser

- **Vapor pressure @ 20 °C (68 °F):** 23 hPa (17 mm Hg)
- **Density:**
 - Relative density:** Not determined.
 - Vapor density:** Not determined.
 - Evaporation rate:** Not determined.
- **Solubility in / Miscibility with:**
 - Water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Solvent content:**
 - VOC content:** 6.0 %
 - Solids content:** 3.0 %
- **Other information:** No further relevant information available.

***10 Stability and Reactivity**

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Avoid conditions of heat, moisture and sunlight.
- **Incompatible materials:** Strong acids, strong bases, strong oxidizing agents and strong reducing agents.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**

111-76-2 2-butoxyethanol

Oral	LD50	470 mg/kg (Rat)
Dermal	LD50	220 mg/kg (rab)
Inhalative	LC50/4 h	2,174.91 mg/l (Rat)

1643-20-5 Mazox CG

Oral	LD50	5,000 mg/kg (Rat)
------	------	-------------------

10213-79-3 Sodium Metasilicate Pentahydrate

Oral	LD50	847 mg/kg (Rat)
------	------	-----------------

64-02-8 Tetrasodium ethylenediaminetetraacetate

Oral	LD50	630-1,260 mg/kg (Rat)
------	------	-----------------------

9043-30-5 Ethoxylated Alcohol

Oral	LD50	>10,000 mg/kg (Rat)
------	------	---------------------

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** Irritating effect.

(Contd. on page 7)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/09/2017

Reviewed on 07/09/2017

Trade name: Sun Joe - Degreaser

- **Additional toxicological information:**
- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**
 - Group 1 - Carcinogenic to humans
 - Group 2A - Probably carcinogenic to humans
 - Group 2B - Possibly carcinogenic to humans
 - Group 3 - Not classifiable as to its carcinogenicity to humans
 - Group 4 - Probably not carcinogenic to humans

111-76-2 2-butoxyethanol

3

- **NTP (National Toxicology Program):**
 - None of the ingredients are listed.
- **OSHA-Ca (Occupational Safety & Health Administration):**
 - None of the ingredients are listed.

12 Ecological Information

- **Toxicity:**
- **Aquatic toxicity:**
 - Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

111-76-2 2-butoxyethanol

EC50 1,815 mg/l (Water flea)

- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 - Do not allow product to reach ground water, water course or sewage system.
 - Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment:**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

13 Disposal Considerations

- **Waste treatment methods:**
- **Recommendation:**
 - Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
 - Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport Information

- **UN-Number:**
- **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name:**
- **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material

(Contd. on page 8)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/09/2017

Reviewed on 07/09/2017

Trade name: Sun Joe - Degreaser

- **Transport hazard class(es):**
- **DOT, ADR/ADN, ADN, IMDG, IATA**
- **Class:** Non-Regulated Material
- **Packing group:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **Environmental hazards:** Not applicable.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

111-76-2 2-butoxyethanol

· **TSCA (Toxic Substances Control Act):**

111-76-2	2-butoxyethanol
1643-20-5	Mazox CG
64-02-8	Tetrasodium ethylenediaminetetraacetate
9043-30-5	Ethoxylated Alcohol
7173-51-5	Didecyldimethylammonium chloride
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
64-17-5	Ethanol
7732-18-5	Water, distilled water, deionized water

· **California Proposition 65:**· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **New Jersey Right-to-Know List:**

111-76-2	2-butoxyethanol
64-17-5	Ethanol

· **New Jersey Special Hazardous Substance List:**

111-76-2	2-butoxyethanol	CA, F2
64-17-5	Ethanol	CA, MU, TE, F3

· **Pennsylvania Right-to-Know List:**

111-76-2	2-butoxyethanol
----------	-----------------

(Contd. on page 9)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/09/2017

Reviewed on 07/09/2017

Trade name: Sun Joe - Degreaser

64-17-5	Ethanol	
· Pennsylvania Special Hazardous Substance List:		
None of the ingredients are listed.		
· Carcinogenic categories:		
· EPA (Environmental Protection Agency):		
111-76-2	2-butoxyethanol	NL
· TLV (Threshold Limit Value established by ACGIH):		
111-76-2	2-butoxyethanol	A3
64-17-5	Ethanol	A3
· NIOSH-Ca (National Institute for Occupational Safety and Health):		
None of the ingredients are listed.		

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:

GHS07

· Signal word: Warning**· Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements:

P264 Wash thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**16 Other Information**

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

(Contd. on page 10)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 07/09/2017

Reviewed on 07/09/2017

Trade name: Sun Joe - Degreaser· **Date of preparation / last revision:** 07/09/2017 / 2· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety and Health
 OSHA: Occupational Safety & Health Administration
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 BEI: Biological Exposure Limit
 Flam. Liq. 4: Flammable liquids – Category 4
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Corr. 1C: Skin corrosion/irritation – Category 1C
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1
 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
 Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· *** Data compared to the previous version altered.**SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106