



1. IDENTIFICATION

Product identifier

Product Name PRO-GRADE CLEANER

Other means of identification

SDS # GST-009

Product Code GST511

Recommended use of the chemical and restrictions on use

Recommended Use Multi-Purpose Degreaser.

Details of the supplier of the safety data sheet

Manufacturer Address

GST International, Inc.
250 Cal Ln. Suite B
Sparks, NV 89431
Ph: 775-829-2626
www.gstinternational.com

Emergency telephone number

Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America) Contract #93918

2. HAZARDS IDENTIFICATION

Appearance Greenish yellow liquid **Physical state** Liquid **Odor** Characteristic

Classification

The classification and labeling information in this Safety Data Sheet should be viewed as provisional, as the product's ingredients and percentages are kept as a trade secret / proprietary.

| | |
|--|------------|
| Skin corrosion/irritation | Category 2 |
| Serious eye damage/eye irritation | Category 1 |
| Carcinogenicity | Category 2 |
| Specific target organ toxicity (repeated exposure) | Category 2 |

Signal Word

Danger

Hazard statements

Causes skin irritation
Causes serious eye damage
Suspected of causing cancer
May cause damage to organs through prolonged or repeated exposure

**Precautionary Statements - Prevention**

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Wash face, hands and any exposed skin thoroughly after handling
 Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

If exposed or concerned: 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 or doctor/physician
 IF ON SKIN: Wash with plenty of water and soap
 Take off contaminated clothing and wash before reuse
 If skin irritation occurs: Get medical advice/attention

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other hazards

Harmful to aquatic life with long lasting effects

Unknown Acute Toxicity

NOTE: Acute Toxicity classifications / calculations are approximates

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% |
|----------------------------------|-------------|-------------|
| Nonylphenol Ethoxylate | 127087-87-0 | Proprietary |
| 2-Butoxyethanol | 111-76-2 | Proprietary |
| Sodium metasilicate pentahydrate | 10213-79-3 | 0-5 |
| Sodium metasilicate | 6834-92-0 | Proprietary |
| Diethanolamine | 111-42-2 | 0-5 |

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first aid measures**General Advice**

Get medical advice/attention if you feel unwell.

Eye Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Immediate medical attention is required.

| | |
|---------------------|---|
| Skin Contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. |
| Inhalation | Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician/poison center if individual's condition declines or if symptoms persist. |
| Ingestion | Rinse mouth. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Never give anything by mouth to an unconscious person. Call a poison center or doctor/physician if you feel unwell. |

Most important symptoms and effects, both acute and delayed

| | |
|-----------------|---|
| Symptoms | Causes skin irritation and serious eye damage. May be harmful if swallowed. May cause nausea, vomiting, stomach ache, and diarrhea. |
|-----------------|---|

Indication of any immediate medical attention and special treatment needed

| | |
|---------------------------|------------------------|
| Notes to Physician | Treat symptomatically. |
|---------------------------|------------------------|

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Water spray (fog). Halon. Foam, Dry Chemical, Carbon Dioxide.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Cool closed containers exposed to fire with water spray.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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|-----------------------------|--|
| Personal Precautions | Use personal protective equipment as required. |
|-----------------------------|--|

Environmental precautions

| | |
|----------------------------------|---|
| Environmental precautions | See Section 12 for additional Ecological Information. |
|----------------------------------|---|

Methods and material for containment and cleaning up

| | |
|--------------------------------|---|
| Methods for Containment | Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an absorbent material. |
| Methods for Clean-Up | Reclaim where possible. Sweep up and shovel into suitable containers for disposal. |

7. HANDLING AND STORAGE

Precautions for safe handling

| | |
|--------------------------------|--|
| Advice on Safe Handling | Handle in accordance with good industrial hygiene and safety practice. Wear appropriate personal protective equipment. Wash face, hands and any exposed skin thoroughly after handling. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when handling this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe |
|--------------------------------|--|

dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

- Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.
- Incompatible Materials** Strong oxidizing agents. Strong acids. Strong bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--|---|--|--|
| 2-Butoxyethanol 111-76-2 | TWA: 20 ppm | TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S* | IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³ |
| Sodium metasilicate 6834-92-0 | 2 mg/m ³ | 2 mg/m ³ | - |
| Sodium metasilicate pentahydrate 10213-79-3 | - | 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction) | - |
| Diethanolamine 111-42-2 | TWA: 1 mg/m ³ inhalable fraction and vapor S* | (vacated) TWA: 3 ppm (vacated) TWA: 15 mg/m ³ | TWA: 3 ppm TWA: 15 mg/m ³ |

Appropriate engineering controls

- Engineering Controls** Apply technical measures to comply with the occupational exposure limits. Maintain eye wash fountain and quick-drench facilities in work area.

Individual protection measures, such as personal protective equipment

- Eye/Face Protection** Wear eye/face protection. Wear safety glasses with side shields (or goggles). Refer to 29 CFR 1910.133 for eye and face protection regulations.
- Skin and Body Protection** Wear protective gloves and protective clothing. Reference Wiley's "Quick Selection Guide to Chemical Protective Clothing". Refer to 29 CFR 1910.138 for appropriate skin and body protection.
- Respiratory Protection** If necessary, wear a MSHA/NIOSH-approved respirator. Refer to 29 CFR 1910.134 for respiratory protection requirements.
- General Hygiene Considerations** Avoid contact with skin, eyes and clothing. After handling this product, wash hands before eating, drinking, or smoking. If contact occurs, remove contaminated clothing. If needed, take first aid action shown on section 4 of this SDS. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|---------------------------------------|------------------------|-------------------------|----------------|
| Physical state | Liquid | Odor | Characteristic |
| Appearance | Greenish yellow liquid | Odor Threshold | Not determined |
| Color | Greenish yellow | | |
| Property | Values | Remarks • Method | |
| pH | Not determined | | |
| Melting point / freezing point | Not determined | | |
| Boiling point / boiling range | 201 °F | | |

| | |
|---|------------------|
| Flash point | None |
| Evaporation Rate | Not determined |
| Flammability (Solid, Gas) | Not determined |
| Flammability Limit in Air | |
| Upper flammability or explosive limits | Not determined |
| Lower flammability or explosive limits | Not determined |
| Vapor Pressure | Not determined |
| Vapor Density | Not determined |
| Relative Density | 1.10 |
| Water Solubility | Soluble in water |
| Solubility in other solvents | Not determined |
| Partition Coefficient | Not determined |
| Autoignition temperature | Not determined |
| Decomposition temperature | Not determined |
| Kinematic viscosity | Not determined |
| Dynamic Viscosity | Not determined |
| Explosive Properties | Not determined |
| Oxidizing Properties | Not determined |

Other information

VOC Content (%) 5.1%

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

| | |
|---------------------|--|
| Eye Contact | Causes serious eye damage. |
| Skin Contact | Causes skin irritation. |
| Inhalation | May cause irritation if inhaled. |
| Ingestion | May be harmful if swallowed. May cause nausea, vomiting, stomach ache, and diarrhea. |

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|---|---|---|
| Nonylphenol Ethoxylate 127087-87-0 | = 1310 mg/kg (Rat) | - | - |
| 2-Butoxyethanol 111-76-2 | = 470 mg/kg (Rat) | = 435 mg/kg (Rabbit) | = 486 ppm (Rat) 4 h = 450 ppm (Rat) 4 h |
| Sodium metasilicate 6834-92-0 | = 1153 mg/kg (Rat) | - | - |
| Sodium metasilicate pentahydrate 10213-79-3 | 847 mg/Kg (rat) | - | - |
| Diethanolamine 111-42-2 | = 620 µL/kg (Rat) = 780 mg/kg (Rat) | = 11.9 mL/kg (Rabbit) = 7640 µL/kg (Rabbit) | - |

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms**

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Carcinogenicity**

Suspected of causing cancer.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|-----------------------------|-------|----------|-----|------|
| 2-Butoxyethanol 111-76-2 | A3 | Group 3 | | |
| Diethanolamine 111-42-2 | A3 | Group 2B | | X |

Legend**ACGIH (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

Group 3 IARC components are "not classifiable as human carcinogens"

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

Unknown Acute Toxicity

NOTE: Acute Toxicity classifications / calculations are approximates.

Oral LD50

2,060.48 mg/kg

Dermal LD50

8,364.70 mg/kg

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Component Information

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|----------------------------------|---|---|--|
| 2-Butoxyethanol 111-76-2 | | 2950: 96 h Lepomis macrochirus mg/L LC50 1490: 96 h Lepomis macrochirus mg/L LC50 static | 1000: 48 h Daphnia magna mg/L EC50 1698 - 1940: 24 h Daphnia magna mg/L EC50 |
| Sodium metasilicate 6834-92-0 | | 210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50 | 216: 96 h Daphnia magna mg/L EC50 |
| Diethanolamine 111-42-2 | 2.1 - 2.3: 96 h Pseudokirchneriella subcapitata mg/L EC50 7.8: 72 h Desmodesmus subspicatus mg/L EC50 | 4460 - 4980: 96 h Pimephales promelas mg/L LC50 flow-through 600 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 1200 | 55: 48 h Daphnia magna mg/L EC50 |

| | | | |
|--|--|--|--|
| | | - 1580: 96 h Pimephales promelas mg/L LC50 static | |
|--|--|--|--|

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

| Chemical name | Partition coefficient |
|-----------------------------|-----------------------|
| 2-Butoxyethanol 111-76-2 | 0.81 |
| Diethanolamine 111-42-2 | -2.18 |

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

- Disposal of Wastes** Disposal should be in accordance with applicable regional, national and local laws and regulations.
- Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

- Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.
- DOT** Not regulated
- IATA** Not regulated
- IMDG** Not regulated

15. REGULATORY INFORMATION

International Inventories

| Chemical name | TSCA | TSCA Inventory Status | DSL/NDSL | EINECS/ELI NCS | ENCS | IECSC | KECL | PICCS | AICS |
|----------------------------------|------|-----------------------|----------|----------------|------|-------|------|-------|------|
| Nonylphenol Ethoxylate | X | ACTIVE | X | X | X | X | X | X | X |
| 2-Butoxyethanol | X | ACTIVE | X | X | X | X | X | X | X |
| Sodium metasilicate | X | ACTIVE | X | X | X | X | X | X | X |
| Sodium metasilicate pentahydrate | X | | | | | X | | X | |
| Diethanolamine | X | ACTIVE | X | X | X | X | X | X | X |

- Legend:**
- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
 - DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
 - EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 - ENCS** - Japan Existing and New Chemical Substances
 - IECSC** - China Inventory of Existing Chemical Substances
 - KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

| Chemical name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|----------------------------|--------------------------|----------------|---|
| Diethanolamine 111-42-2 | 100 lb | | RQ 100 lb final RQ RQ 45.4 kg final RQ |

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

| Chemical name | CAS No | Weight-% | SARA 313 - Threshold Values % |
|--------------------------------------|-------------|-------------|-------------------------------|
| Nonylphenol Ethoxylate - 127087-87-0 | 127087-87-0 | Proprietary | 1.0 |
| 2-Butoxyethanol - 111-76-2 | 111-76-2 | Proprietary | 1.0 |
| Diethanolamine - 111-42-2 | 111-42-2 | 0-5 | 1.0 |

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals.

| Chemical name | California Proposition 65 |
|---------------------------|---------------------------|
| Diethanolamine - 111-42-2 | Carcinogen |

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|-----------------------------|------------|---------------|--------------|
| 2-Butoxyethanol 111-76-2 | X | X | X |
| Diethanolamine 111-42-2 | X | X | X |

16. OTHER INFORMATION

| | | | | |
|--------------------|-----------------------|---------------------|-------------------------|----------------------------|
| <u>NFPA</u> | Health Hazards | Flammability | Instability | Special Hazards |
| | Not determined | Not determined | Not determined | Not determined |
| <u>HMIS</u> | Health Hazards | Flammability | Physical hazards | Personal Protection |
| | Not determined | Not determined | Not determined | Not determined |

Issue Date: 08-May-2020
 Revision Date: 22-May-2020
 Revision Note: New product

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet