



SAFETY DATA SHEET

According to 29CFR 1910.1200

Heavy Duty Degreaser

Section 1: Identification

GHS Product Name: Heavy Duty Degreaser

Product Code: HDD16

Other means of identification: Not applicable (N/A)

Chemical Name/Synonyms: Not applicable (N/A)

Product Type: Alkaline Cleaner

Optimal Solutions Products

145 City View Cir

Pickens, South Carolina 29672

864-557-3767

www.OSproduct.com

Emergency number: Chemtrec 1-800-424-9300

Section 2: Hazard(s) Identification

Hazard Classification:

SKIN CORROSION: Sub-category 1B

EYE DAMAGE: Category 2



Signal Word(s):

Danger

Hazard Statements:

H303: May be harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

Precautionary Statements:

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

P234: Keep in original container

P235: Keep Cool.

P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P262: Do not get in eyes, on skin, or on clothing.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product

P273: Avoid Release to the Environment

P280: Wear protective gloves/eye protection/face protection

P501: Dispose of the contents/containers according to the local, state and federal regulations.

Response Statements:

P301: IF SWALLOWED

P330: Rinse mouth.

P331: Do NOT induce vomiting.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P303: IF ON SKIN (or hair)

P361: Remove/Take off immediately all contaminated clothing.

P353: Rinse skin with water/shower.

P332: IF SKIN irritation occurs

P313: Get medical advice/attention



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Section 2: Hazard(s) Identification Continued

P304: IF INHALED
P340: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P341: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342: IF experiencing respiratory symptoms
P311: Call a POISON CENTER or doctor/physician.
P305: IF IN EYES
P351: Rinse cautiously with water for several minutes.
P338: Remove contact lenses, if present and easy to do. Continue rinsing.
P337: IF eye irritation persists
P313: Get medical advice/attention
P363: Wash Contaminated Clothing Before Reuse
P390: Absorb Spillage to Prevent Material Damage
P391: Collect Spillage
P321: Specific treatment (see First Aid information on product label and/or Section 4 of the SDS)

STORAGE STATEMENTS:

P401: Store in a secure manner. Keep container closed.
P403+235: Store in a well-ventilated place. Keep cool.

DISPOSAL STATEMENTS:

P501: Dispose of Contents/Container in Accordance with Local/State/Federal/International Regulations

CARCINOGENICITY:

Not listed by OSHA, IARC, OR NTP

Section 3: Composition/ Information on Ingredients

Substance / Mixture: Mixture

Chemical Name	Synonym	CAS#	Conc.
Sodium Metasilicate		6834-92-0	1 – 5 %

Synonyms: N/A

Special Notes: N/A

Disclosure Statement:

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

Section 4: First-Aid Measures

After skin contact:

Wash with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 15 minutes. Wash clothing before reuse. Clean shoes thoroughly before reuse. If irritation or burn occurs get medical attention.

After eye contact:

Immediately flush eyes with plenty of water. If possible, remove contact lenses. Rinse for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention.

After inhalation:

Remove from exposure and move to fresh air immediately and keep in a position comfortable for breathing. Give artificial respiration if necessary. Obtain medical attention if necessary.

After swallowing:

DO NOT INDUCE VOMITING. If person is conscious, wash out mouth with water. Never give anything to an unconscious person. Consult a physician or medical facility with regards to inducing vomiting.



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Section 5: Fire-Fighting Measures

Suitable extinguishing agents:

Not combustible, however, if material is involved in a fire: Use fine water spray, normal foam, carbon dioxide or dry chemical powder

Special protective equipment for firefighters:

Firefighters must wear self-contained breathing apparatus and suitable protective clothing if there is risk of exposure to products of decomposition.

Section 6: Accidental Release Measures

Personal precautions:

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through material. Put on appropriate personal protective equipment.

Environmental protection:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Measures for cleaning/collecting:

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7: Handling and Storage

Precautions for safe handling:

Handle in accordance with good industrial hygiene and safety precautions. Avoid contact with skin, eyes, and clothing. Do not breathe the vapor or mist. Do not ingest. Use only with adequate ventilation. Keep in original container. Do not reuse container. Use appropriate personal protective equipment (see Section 8).

Conditions for safe storage:

Store in accordance with local regulations. Store in segregated and approved area. Keep container closed and store at moderate temperature in a well-ventilated area, away from incompatible materials (see Section 10).

Section 8: Exposure Controls/Personal Protection



Exposure Guidelines

<u>Ingredient name</u>	<u>CAS #</u>	<u>ACGIH</u>	<u>OSHA</u>	<u>California</u>
Sodium Metasilicate	6834-92-0	TLV (2 mg/m ³)	PEL (TWA) (2 mg/m ³)	

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local ventilation to keep airborne levels of vapor or mist to acceptable levels.

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eye wash stations and safety showers are close to the workstation location. Wear chemical resistant footwear.

Personal Protection Equipment

Respiratory:

If a risk assessment indicates this is necessary, use a properly fitted, air-purifying or air fed respirator complying with an approved standard. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Section 8: Exposure Controls/Personal Protection Continued

Hands: Chemical-resistant protective gloves should be always worn when handling chemical products

Eyes and Face: Wear approved safety glasses or chemical splash goggles. Use a face shield when appropriate.
Recommended: splash goggles

Skin: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Work Hygiene Practices: Avoid contact with skin, eyes, and clothing. Do not breathe vapor or mist. Do not ingest.

Other use Precautions: Wear appropriate protective clothing to prevent skin exposure.

Personal protective equipment (Pictograms) :



Section 9: Physical and Chemical Properties

Form:	Clear Liquid	Upper flammability or explosive limits:	N/A
Odor:	Surfactant (slight)	Lower flammability or explosive limits:	N/A
Odor Threshold:	N/A.	Vapor pressure:	N/A
pH:	Approx. 13	Vapor density:	N/A
Specific Gravity:	1.06	Partition coefficient: n-octanol/water:	N/A
Freeze Point:	N/A	Auto Ignition Temp:	N/A
Boiling point:	N/A	Decomposition temperature:	N/A
Flash point:	N/A	Viscosity:	N/A
Evaporation rate:	About the same as water	VOC (% wt.):	0.9
Flammability:	N/A	Percent Volatile:	N/A
Solubility:	Complete	Other:	N/A

Section 10: Stability and Reactivity

Reactivity: Stable at normal temperatures and pressures.

Chemical stability: Stable at normal temperatures and pressures.

Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid: No specific data.

Incompatible materials: No specific data.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Storage: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 11: Toxicological Information

Information on the likely routes of exposure: Dermal contact. Eye contact. Inhalation. Ingestion.

Potential acute health effects:

Eye contact: May cause severe irritation or burns to eyes.

Inhalation: May cause severe irritation or burns to respiratory tract.

Skin contact: May cause severe irritation or burns to skin.

Ingestion: Ingestion may cause severe irritation or burns to throat and gastrointestinal system.



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Section 11: Toxicological Information Continued

Target Organ Effects:	N/A		
Carcinogenicity:	This product is not listed as a carcinogen (known or potential)		
Chronic Effects:	N/A	Medical Conditions Aggravated by Exposure:	N/A
Reproductive Toxicity:	N/A	Germ Cell Mutagenicity:	N/A
Acute Toxicity:	N/A	STOST Single Exposure:	N/A
Acute Toxicity Values:	N/A	STOST Repeated Exposure:	N/A

Section 12: Ecological Information (non-mandatory)

Ecotoxicity: No specific data.

Section 13: Disposal Considerations (non-mandatory)

WASTE DISPOSAL METHOD: Dispose of material in accordance with all federal, state, and local regulations

NEUTRALIZING CHEMICALS: Dispose of in accordance with all federal, state, and local regulations

GENERAL DISPOSAL CONSIDERATIONS: Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.

Section 14: Transport Information (non-mandatory)

PROPER SHIPPING NAME: CORROSIVE LIQUID, N.O.S. (Sodium Metasilicate Solution)
CLEANING COMPOUND, LIQUID (Gallon - Limited Quantity)

UN/NA NUMBER: UN1760

HAZARD CLASS: 8

PACKING GROUP: III

EMERGENCY RESPONSE GUIDEBOOK: 154

PLACARD/LABELS REQUIRED: Corrosive

Section 15: Regulatory Information (non-mandatory)

OSHA HAZARDOUS CHEMICAL: N/A

SARA Section 302/304: N/A

SARA Section 311/312 Hazards: N/A

SARA Section 313: N/A

Hazardous Air Pollutants: None

National Toxicology Program (NTP): N/A

Toxic Substances Control Act: (TSCA) All components of this product comply with the inventory requirements administered by the governing agency.

State Regulations:

Massachusetts	N/A
New York	N/A
New Jersey	N/A
Pennsylvania	N/A
California Prop 65	N/A

Canada:

Canadian Lists:	
Canada NPRI	N/A
Canada Inventory.	All components are listed or exempted.
Canadian PCP/DIN Number:	N/A

International Regulations:

International lists.

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

Korea inventory: All components are listed or exempted.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.



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Section 15: Regulatory Information (non-mandatory) Continued

EPA Registration Number: N/A
Clean Air Act Section 112: Not listed

Section 16: Other Information

HMIS: Health = 2; Flammability = 0; Reactivity = 0; Personal Protection Equipment = B

Other Information: Do not add anything to concentrated product. KEEP FROM FREEZING.

The information herein has been from sources believed to be accurate, reliable and up to date to the best of our knowledge. However, we cannot give any guarantees regarding information from other sources and do not make any warranties nor assume any liability from its use or misuse.

SDS date of preparation/update: 01/01/2025