

Issue Date: 08-Apr-2015

Review Date: 03-Mar-2021

Version 1.1

1. IDENTIFICATION

Product Identifier

Product Name GRID CLEANER HD

Other means of identification

SDS #

ITEM # M-07381
M-07383
M-07385
M-07387

Recommended use of the chemical and restrictions on use

Recommended Use Cleaner / Degreaser

Details of the supplier of the safety data sheet

Supplier Address

Ashburn Chemical Technologies
7403 Wright Rd
Houston, TX 77041

Emergency Telephone Number

Company Phone Number

832-399-1000

Emergency Telephone (24 hr)

INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Clear,
Light yellow

Physical State Liquid

Odor Mild

Classification

Skin corrosion /irritation	Category 1
Serious eye damage/eye irritation	Category 1
Acute Toxicity (Oral)	Category 4

Signal Word

DANGER

Hazards Not Otherwise Classified (HNOC)

Maybe corrosive to metals

Hazard Statements

Causes severe skin burns and eye damage
Harmful if swallowed



Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a poison center or doctor/physician
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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse
INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Immediately call a poison center or doctor/physician
IF SWALLOWED: rinse mouth. Do NOT induce vomiting

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Tetrasodium EDTA	64-02-8	1-5
Potassium Hydroxide	1310-58-3	10-20

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**First Aid Measures**

General Advice	If you feel unwell, seek medical advice. Show the label where possible. Show this safety data sheet to the doctor / medical personnel for treatment
Eye Contact	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin Contact	Wash contact areas with soap and water. Remove contaminated clothing and launder before reuse. If skin irritation persists, call a physician.
Inhalation	Remove from further exposure. Use adequate respiratory protection. Seek immediate medical assistance.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. Seek immediate medical attention/advice.

Most important symptoms and effects

Symptoms	Severe eye damage, skin burns, digestive tract burns. Upper respiratory tract irritation. Mucous membrane irritation See SECTION 11 for more information.
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Indication of any immediate medical attention and special treatment needed**Notes to Physician**

Treat as a corrosive substance

5. FIRE-FIGHTING MEASURES**Suitable /Unsuitable
Extinguishing Media**Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames
Do not use high volume water jet.**Specific Hazards Arising
from the Chemical**Thermal decomposition may produce toxic fumes, harmful vapor, or gases
hazardous to health.**Hazardous Combustion Products**

None-known

**Protective equipment /
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**Avoid contact with skin or eyes.
Avoid breathing dust/fume/gas/mist/vapors/spray
See SECTION 8 for Personal Protective Equipment**Environmental Precautions**Prevent entry into waterways, rivers, lakes, drains, surface water, or ground water.
Prevent further leakage or spillage if safe to do so.
See SECTION 12 for Ecological Information.**Methods for Clean-Up**Absorb or cover with dry earth, sand or other non-combustible material.
Sweep up absorbed material and shovel into suitable containers for disposal.
Discard any product, residue, disposable container or liner in full compliance with federal,
state, and local regulations.
See SECTION 13 for Waste Disposal.**7. HANDLING AND STORAGE****Advice on Safe Handling**Do not handle until all safety precautions have been read and understood.
Handle in accordance with good industrial hygiene and safety practice.
Avoid breathing fumes, vapors, mists, spray.
Wash face, hands, and any exposed skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
See SECTION 8 for Personal Protection.
See SECTION 2 for Precaution Statements**Storage Conditions**Keep container tightly closed and store in a cool, dry and well-ventilated place.
Do not store in open or unlabeled containers.
Storage temperature 5-40°C (41-104°F). Store locked up.**Incompatible Materials**Acids, Oxidizing agents, Halogenated materials, Organic materials, Ethers
Avoid prolonged contact with alkali sensitive materials or alloys.**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Hydroxide 1310-58-3	Ceiling: 2 mg/m ³	(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³

Legend: **ACGIH:** American Conference of Governmental Industrial Hygienists **TLV:** Threshold Limit Value
OSHA: Occupational Safety and Health Administration **PEL:** Permissible Exposure Limit
NIOSH: National Institute for Occupational Safety and Health **STEL:** Short Term Exposure Limit

Engineering Controls Adequate ventilation.
 Maintain eye wash fountain and quick-drench facilities in work area.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses and face shield are recommended.

Skin and Body Protection Nitrile rubber gloves / Chemical resistant or water resistant gloves.
 Personal protective clothing must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory Protection Ensure adequate ventilation, especially in confined areas.
 In case of inadequate ventilation wear respiratory protection

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 and launder before reuse.
 See SECTION 4 for First-Aid Measure

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Liquid	Odor	Mild
Appearance	Clear	Odor Threshold	Not determined
Color	Light yellow		

Property	Values	Remarks • Method
pH	13.0 (20:1)	
Melting Point/Freezing Point	Appx 4.4° C / 40°F	
Boiling Point/Boiling Range	> 100 °C / 212 °F	
Flash Point	Not flammable	
Evaporation Rate	Appx 8-10 mmHg	(butyl acetate = 1)
Flammability (Solid, Gas)	Not determined	
Upper Flammability Limits	Not determined	
Vapor Pressure	Not determined	@68° F(20°C)
Vapor Density	Not determined	(Air=1)
Specific Gravity	1.1 – 1.3	(1=Water)
Water Solubility	Completely soluble	
Solubility in other solvents	Not determined	
Auto-ignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
VOC Content (%)	Not determined	

10. STABILITY AND REACTIVITY

Reactivity Reacts violently with strong acid substances. May react with oxidizing agents.

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Conditions to Avoid Incompatible Materials.

Incompatible Materials See SECTION 7

Hazardous Decomposition Products Thermal decomposition and combustion are not expected to occur except under extreme conditions.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye Contact Causes severe eye damage.
Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Permanent eye damage including blindness could result.

Skin Contact Causes severe skin burns.
Symptoms: Burning pain and severe corrosive skin damage

Inhalation May cause irritation to upper respiratory system.

Ingestion Harmful if swallowed. Cause digestive tract burns.

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

Acute Effects Exposure to alkaline solutions may result in irritation to any contact tissue, including possible burns, depending on the concentration, duration, and nature of the exposure.

Chronic Effects Prolonged inhalation may be harmful.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Tetrasodium EDTA 64-02-8	= 10 g/kg (Rat)	-	-
Potassium Hydroxide 1310-58-3	333 mg/kg	-	-

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

Carcinogenicity No data available

Reproductive Toxicity No data available

STOT- repeated/single exposure No data available (for both single and repeated exposure)

Additional Information No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Tetrasodium EDTA 64-02-8	1.01: 72 h Desmodesmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static		610: 24 h Daphnia magna mg/L EC50
Potassium Hydroxide 1310-58-3		50-165 mg/L Fresh Water Fish		

Persistence/Degradability No data available.

Bioaccumulation No data available

Mobility Expected to remain in the water phase due to high water solubility.

Component	Log Pow
Potassium Hydroxide CAS#1310-58-3	0.83

Other Adverse Effects Not determined

13. DISPOSAL CONSIDERATIONS

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

UN/ID No UN1760
 Proper Shipping Name Corrosive liquid, n.o.s.
 Hazard Class 8
 Packing Group II

IATA

UN/ID No UN1760
 Proper Shipping Name Cleaning liquid, Corrosive, n.o.s
 Hazard Class 8
 Packing Group II

IMDG

UN/ID No UN1760
 Proper Shipping Name Cleaning liquid, corrosive, n.o.s
 Hazard Class 8
 Packing Group II

15. REGULATORY INFORMATION

International Inventories The component(s) of this product comply with the inventory requirement administered by the governing countries

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
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Tetrasodium EDTA	x	x			x	x	x	x	x	x
Potassium Hydroxide	x	x			x	x	x	x	x	x

Legend:*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL - 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**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Potassium hydroxide 1310-58-3	1000 lb		RQ 1000 lb final RQ ; RQ 454 kg final RQ

SARA 311/312 Hazardous Chemical Acute Health Hazard, Chronic Health Hazard**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

U.S. State RTK Regulations

This product contains the following chemicals regulated in the state listed below

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium Hydroxide 1310-58-3	X	X	X

16. OTHER INFORMATION**NFPA****Health Hazards**

3

Flammability

0

Instability

1

Special Hazards

Not determined

HMIS**Health Hazards**

3

Flammability

0

Physical Hazards

0

Personal Protection

Not determined

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06-Oct-2016

Revision Note:

Updated SEC 2, 3 and 14

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