
1 **PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier: HD-100
Revision Date: 5/15/2015
Version: 1
Product Description: Concentrated industrial aqueous cleaner / degreaser.
Product Use:
Instructions: Industrial cleaner / degreaser.

Minimum recommended dilution ratio 2 parts water :1 part Heavy Duty Degreaser Concentrate.
Use according to manufacturers directions.

Curtis Fluids encourages and expects the user to read and understand the entire (M)SDS, as there is important information throughout the document. We expect the user to follow the precautions identified in this document unless the user's use conditions would necessitate other appropriate methods or actions.

Supplier Details: Curtis Fluids
1901 Godfrey Ave., SW
Grand Rapids, MI 49509

Phone: 616-452-5797

Within USA and Canada: 1-616-452-5797

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):
Health, Causes eye irritation, 2B

GHS Label elements, including precautionary statements

GHS Signal Word: **WARNING**

GHS Hazard Pictograms:

no GHS pictograms indicated for this product

GHS Hazard Statements:

Causes eye irritation

GHS Precautionary Statements:

IF SWALLOWED: Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

IF ON SKIN: Wash with soap and water.

IF INHALED: Prolonged exposure is not expected to cause adverse effects.

IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice.

Hazards not otherwise classified (HNOC) or not covered by GHS

Inhalation: Prolonged exposure is not expected to cause adverse effects.

Skin Contact: Non-irritating.

Eye Contact: May cause slight eye irritation.

Ingestion: Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury.

Ingredients:

The specific chemical identity and chemical composition has been withheld as a trade secret.

The precise composition of this mixture is proprietary information. A complete disclosure will be provided to a physician or nurse in the event of a medical emergency.

FIRST AID MEASURES

Inhalation: If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention .
Skin Contact: Wash with soap and water.
Eye Contact: Flush eyes thoroughly with water for 15 minutes. Remove contact lenses after the initial 1 -2 minutes and continue flushing for several additional minutes. If effects occur, consult physician.
Ingestion: If swallowed, seek medical attention if symptoms develop. Do not induce vomiting unless directed to do so by medical personnel.

FIRE FIGHTING MEASURES

Extinguishing Media: Water fog or fine spray. Dry chemical fire extinguishers . Carbon dioxide fire extinguishers. Foam. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Fire Fighting Procedures: Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Avoid accumulation of water.

Special Protective Equipment for Firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance

ACCIDENTAL RELEASE MEASURES

Personal Precautions: Spilled material may cause a slipping hazard. Use appropriate safety equipment. (See Section 8)

Methods and materials for containment and cleaning up:

Small spills: Absorb with materials such as: sand, vermiculite, absorbent pillows, pads and/or wipes. Do not use water for clean up. Collect in suitable and properly labeled containers.

Large spills: Contain spilled material if possible. Pump into suitable and properly labeled containers.

HANDLING AND STORAGE

Handling Precautions: Avoid contact with eyes. Wash thoroughly after handling.

Storage Requirements: Store indoors away from direct sunlight. Keep containers closed when not in use.
Shelf life: 24 Months

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: General ventilation should be sufficient for most operations.
Personal Protective Equipment: HMIS PP, B | Safety Glasses, Gloves

Respiratory Protection: Wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator.

PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear to yellowish
Liquid
Odor: Light Citrus
Odor Threshold: No data available
Solubility: Miscible in water in all proportions
Spec Grav./Density: 0.998 +/- 0.003 (Hydrometer)
Viscosity: No data available
Boiling Point: No data available
Freezing/Melting Pt.: 32°F (0 C)
Flammability: no data available
Flash Point: >200°F Test Method SW1010 A
Partition Coefficient: No data available
Vapor Pressure: <1.0 mm Hg @ 68°F (not including water content).
Vapor Density: No data available
pH: 8 - 10
VOE: 75 g/1 in "Neat" form. 25 g/1 when diluted 2:1 with H2O, SCAQMD certified clean air solvent.
Evap. Rate: No data available
Auto-Ignition Temp: No data available
Decomp Temp: No data available
UFULFL: No data available

STABILITY AND REACTIVITY

Stability: Product is stable under normal conditions.
Materials to Avoid: This is a water-based product. Strong Acids; Strong Bases; Strong Oxidizing Agents.
Hazardous Decomposition: Will not occur.
Hazardous Polymerization: Will not occur.

TOXICOLOGICAL INFORMATION

Likely routes of exposure:

- Inhalation: Prolonged exposure is not expected to cause adverse effects.
Ingestion: Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury.
Skin: Non-irritating.
Eyes: May cause eye irritation.

- Skin Corrosion/Irritation: Non-irritant per Dermal Irritation assay modeling. No animal testing performed
Eye Damage/Irritation: May cause mild eye irritation per Ocular Irritation assay modeling.
No animal testing performed.
(GHS Hazard category 28)
Germ Cell Mutagenicity: Mixture does not classify under this category
Carcinogenicity: Mixture does not classify under this category
Reproductive Toxicity: Mixture does not classify under this category
STOT-Single Exposure: Mixture does not classify under this category
STOT-Repeated Exposure: Mixture does not classify under this category
Aspiration Hazard: Mixture does not classify under this category

ECOLOGICAL INFORMATION

Fish Toxicity LC50, Pimephales promelas, 96 hour: 156 ppm.

Aquatic Invertebrate Toxicity
LC50, Daphnia pulex, 48 hour: 340 ppm.

Persistence and Degradability Biodegradation Tests:
Fully biodegradable in accordance with ISO 9439.

DISPOSAL CONSIDERATIONS

Dispose of uncontaminated material into sewer where applicable within Federal, State and/or local laws and regulations.

Disposal of contaminated material must be in compliance with all Federal, State and/or local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

TRANSPORT INFORMATION

DOT Non-Bulk - NOT REGULATED
DOT Bulk - NOT REGULATED
IMDG - NOT REGULATED
ICAO/IATA - NOT REGULATED



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This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

1 REGULATORY INFORMATION

OSHA Hazard Communication Standard This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Immediate (Acute) Health Hazard	No Delayed (Chronic) Health Hazard	No Fire Hazard	No
Reactive Hazard	No		
Sudden Release of Pressure Hazard	No		

Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313 To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.

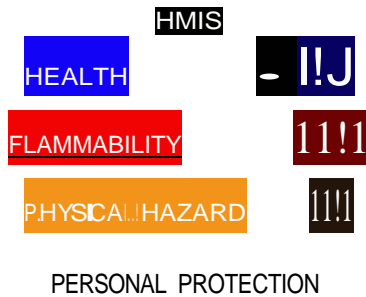
California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

US. Toxic Substances Control Act All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.30 CEPA - Domestic Substances List (DSL) All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

European Inventory of Existing Commercial Chemical Substances (EINECS) The components of this product are on the EINECS inventory or are exempt from inventory requirements.

CEPA - Domestic Substances List (DSL) All substances contained in this product are listed on the Canadian Domestic Substances list (DSL) or are not required to be listed.

NFPA: Health = 0, Fire = 0, Reactivity = 0, Specific Hazard = None
HMIS III: Health = 0, Fire = 0, Physical Hazard = 0
HMIS PPE: B - Safety Glasses, Gloves



Keteca USA, Inc urges each customer or recipient of this SOS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this SOS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that its activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific SDSs, we are not and cannot be responsible for SDSs obtained from any source other than ourselves. If you have obtained an SOS from another source or if you are not sure that the SOS you have is current, please contact us for the most current version.

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