

This brief provides a general overview of the **Safety Data Sheet** requirements in the Hazard Communication Standard OSHA's 29 CFR 1910.1200(g) and Appendix D of 29 CFR 1910.1200).

Section 1 ~ Identification

Identity (As Used On Label and List) K406 U S & O Remover	Date Prepared: 01-01-2020
Company Information: KAYLINE COMPANY	Emergency Telephone Number: 1-800-424-9300
Address (Number, Street, Suite/Apt#) PO Box 603207	Telephone Number for Information: 1-800-426-5820
(City, State, and Zip Code) Cleveland, OH 44103	Signature of Prepare (Optional) REGULATORY DEPT.

Section 2 ~ Hazard(s) Identification

Product as a Concentrate

GHS Overview: Eye Corrosive, Corrosive to Gastrointestinal Tract, Skin Corrosive.

GHS Label Elements:

Signal Word: Danger



Symbol:

Hazard Statements: Causes Skin Irritation/Damage. Causes Eye Irritation/Damage. May Cause Respiratory Irritation

Precautionary Statements

Prevention: Wear protective gloves. Wear eye or full face protection. Wear protective clothing. Wash hands thoroughly after handling.

Response: Skin Contact: If skin comes in contact with product: Flush exposed area with cool water for 15 minutes. Consult a physician if irritation develops or persists. **Eye Contact:** If this product comes in contact with eyes, flush eyes with lukewarm water for 30 minutes and consult a physician if irritation develops or persists. **If Swallowed:** Have patient drink large amounts of milk or plain water. **DO NOT INDUCE VOMITING.** Consult a physician immediately. **If Inhaled:** Remove to clean atmosphere and consult physician immediately.

Storage: No specific restriction identified.

Disposal: See Section 13 for waste disposal info.

Other Hazards: None known.

Product at Use Dilution

GHS Overview: Eye Severe Irritant, Severe Irritant to Gastrointestinal Tract, Skin Irritant.

GHS Label Elements

Signal Word: Danger



Symbol:

Hazard Statements: May Cause Skin Irritation. May Cause Eye Irritation

Precautionary Statements

Prevention: Wear protective gloves. Wear eye or full face protection. Wear protective clothing. Wash hands thoroughly after handling.

Response: Skin Contact: If skin comes in contact with product: Flush exposed area with cool water for 15 minutes. Consult a physician if irritation develops or persists. **Eye Contact:** If this product comes in contact with eyes, flush eyes with lukewarm water for 30 minutes and consult a physician if irritation develops or persists. **If Swallowed:** Have patient drink large amounts of milk or plain water. **DO NOT INDUCE VOMITING.** Consult a physician immediately. **If Inhaled:** Remove to clean atmosphere and consult physician immediately.

Storage: No specific restriction identified.

Disposal: See Section 13 for waste disposal info.

Other Hazards: None known.

Section 3 ~ Composition/Information on Ingredients

Product as a Concentrate

Components (Specific Chemical Identity, Common Name(s))	CAS No.	Concentration Range
Hydrochloric Acid	7647-01-0	25 – 33%

Product as a Dilution

Components (Specific Chemical Identity, Common Name(s))	CAS No.	Concentration Range
Hydrochloric Acid	7647-01-0	> 1 %

Section 4 ~ First Aid Measures

Product as a Concentrate:

Skin Contact: If skin comes in contact with product: Flush exposed area with cool water for 15 minutes. Consult a physician if irritation persists.

Eye Contact: If this product comes in contact with eyes, flush eyes with lukewarm water for 30 minutes and consult a physician if irritation persists.

Ingestion: DO NOT INDUCE VOMITING. Have patient drink large amounts of milk or plain water. Consult a physician immediately.

Inhalation: Remove to clean atmosphere and consult physician immediately

Protection of First Responders: No action shall be taken involving personal risk or without suitable training. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Note to Physician: Treat symptomatically. Contact poison treatment specialist if large quantities have been ingested or inhaled.

Product at Use Dilutions:

Skin Contact: If skin comes in contact with product: Flush exposed area with cool water for 15 minutes. Consult a physician if irritation persists.

Eye Contact: If this product comes in contact with eyes, flush eyes with lukewarm water for 30 minutes and consult a physician if irritation persists.

Ingestion: DO NOT INDUCE VOMITING. Have patient drink large amounts of milk or plain water. Consult a physician immediately.

Inhalation: Remove to clean atmosphere and consult physician immediately.

Protection of First Responders: No action shall be taken involving personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth to mouth resuscitation.

Section 5 ~ Fire Fighting Measures

Product as a Concentrate:

Suitable Fire Extinguishing Media: Use water spray, fog, or foam.

Specific Fire Hazards: In a fire or if heated, pressure increase may occur, and the container may burst.

Hazardous Thermal Decomposition Products: None known.

Specific Fire - Fighting Methods: Promptly isolate the scene by removing all persons from the area if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment for Fire-Fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full-face piece operated in positive pressure mode.

Section 6 ~ Accidental Release Measures

Product as a Concentrate:

Personal Precautions: Initiate company's spill response procedures immediately. Keep people out of the area. Put on appropriate personal protective equipment (See Section 8). Do not touch or walk through spilled material.

Environmental Precautions: Avoid contact with spilled material and prevent runoff contact with soil and surface waterways.

Methods for Cleaning Up: Follow company's spill response procedures. Keep people away from spill area. Put on appropriate personal protective equipment (See Section 8). Absorb / Neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a water rinse for a final clean-up.

Product at Use Dilution:

Personal Precautions: Initiate company's spill response procedures immediately. Keep people out of the area. Put on appropriate personal protective equipment (See Section 8). Do not touch or walk through spilled material.

Environmental Precautions: Avoid contact with spilled material and prevent runoff contact with soil and surface waterways.

Methods for Cleaning Up: Follow company's spill response procedures. Keep people away from spill area. Put on appropriate personal protective equipment (See Section 8). Absorb / Neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a water rinse for a final clean-up.

Section 7 ~ Handling and Storage

Product as a Concentrate

Handling: Do not get in eyes, on skin, or on clothing. Do not breathe vapor or fumes. Use only in adequately ventilated areas. Wash thoroughly after handling.

Storage: Keep out of the reach of children. Keep container tightly closed. Store between the following temperatures: -25°C and 40°C.

Product at Use Dilution

Handling: Do not get in eyes, on skin, or on clothing. Do not breathe vapor or fumes. Use only in adequately ventilated areas. Wash thoroughly after handling.

Storage: Keep out of the reach of children. Keep container tightly closed.

Section 8 ~ Exposure Controls/Personal Protection**Control Parameters:**

Ingredients Name	Exposure Limits
Hydrochloric Acid	ACGIH TLV: 5 mg/m ³ NIOSH TWA: 8 mg/m ³

Appropriate Engineering Controls: Use only in adequate ventilation. If user operations generate dust, fumes, gas, vapor, or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Eye Protection: Use chemical splash goggles. For continued or severe exposure wear a face shield over goggles.

Hand Protection: Use chemical resistant, impervious gloves.

Skin Protection: Use synthetic apron, other protective equipment as necessary to prevent skin contact.

Respiratory Protection: A respirator is not needed under normal and intended conditions of product use.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using lavatory and at the end of working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Section 9 ~ Physical and Chemical Properties

Product as a Concentrate:	Melting Point: Not Applicable
Physical State: Liquid	Boiling Point: >100°C (212°F)
Color: Milky White	Evaporation Rate: Not Determined
Odor: Slightly Acidic	Vapor Pressure: Not Determined
pH: < 1.0	Vapor Density: Not Determined
Flash Point: None	Specific Gravity: 1.06 +/- 0.02
Explosion Limits: None	Solubility: Easily soluble in either cold or hot water
Flammability: Will not burn or support combustion.	Viscosity: Same as water

Section 10 ~ Stability and Reactivity**Product as a Concentrate**

Stability: This product is stable.

Possibility of Hazardous Reactions: Under normal conditions of storage and use, no hazardous reactions will occur.

Conditions to Avoid: None

Materials to Avoid: Extremely reactive or incompatible materials such as acids. Reactive or incompatible with the following materials: Oxidizers. Slightly reactive or incompatible with the following materials: Metals.

Hazardous Decomposition Products: Under normal conditions of storage and use hazardous decomposition shall not occur.

Section 11 ~ Toxicological Information**Routes of Exposure: Skin Contact, Eye Contact, Inhalation, Ingestion.****Product as a Concentrate****Symptoms**

Skin Contact: Adverse symptoms may include the following: Pain or irritation, redness, rash. Blistering may occur.

Eye Contact: Adverse symptoms may include the following: Pain or irritation, redness, watering.

Inhalation: Adverse symptoms may include the following: Coughing, respiratory tract irritation.

Ingestion: Adverse symptoms may include the following: Stomach pains, diarrhea.

Acute Toxicity

Skin Contact: Causes damage / irritation.

Eye Contact: Causes damage / irritation.

Inhalation: Can cause slight respiratory irritation.

Ingestion: Causes burns to the mouth, throat and stomach.

Toxicity Data: Product / Ingredient Name
Not Applicable

Chronic Toxicity

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Product at Use Dilutions**Symptoms**

Skin Contact: Adverse symptoms may include the following: Pain or irritation, redness, rash. Blistering may occur.

Eye Contact: Adverse symptoms may include the following: Pain or irritation, redness, watering.

Inhalation: Adverse symptoms may include the following: Coughing, respiratory tract irritation.

Ingestion: Adverse symptoms may include the following: Stomach pains, diarrhea.

Section 12 ~ Ecological Information**Product as a Concentrate**

Ecotoxicity: This material is harmful to aquatic life.

Aquatic and Terrestrial Toxicity

Product / Ingredient Name	Results	Species	Exposure
Hydrochloric Acid	Acute LC50 - 1000 mg/l	Rainbow Trout	96 Hours
	Acute LC50 - 3124 mg/kg	Rat	1 Hours

Other Adverse Effects: No known significant effects or critical hazards.

Section 13 ~ Disposal Methods & Considerations**Product as a Concentrate**

Disposal Methods: Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with all local, State, and Federal regulations.

RCRA Classification: None

Section 14 ~ Transportation Information

Note: Certain shipping modes or packaging sizes may have exceptions from the transportation regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or packaging sizes.

DOT (U.S. Department of Transportation)

DOT Classification: Corrosive Liquid

DOT Proper Shipping Name: UN3264, Corrosive Liquid, (Contains Hydrochloric Acid)

Shipping Class: 8

Packaging Group: III

IMO/MDG

IMO/MDG Classification: Corrosive Liquid

IMO/MDG Proper Shipping Name: UN3264, Corrosive Liquid, (Contains Hydrochloric Acid)

Shipping Class: 8

Packaging Group: III

Section 15 ~ Regulatory Information

Product as a Concentrate

U.S. Federal Regulations

TSCA 8(b) Inventory: All components are listed or exempt.

SARA 302/304/311/312 Extremely Hazardous Substances: No Listed Substances.

SARA 313 **Product Names** **CAS Number** **Concentration**

No Listed Substances.

California Prop. 65: No Listed Substances.

Section 16 ~ Other Information

	NFPA	HMIS	Key
HEALTH	2	2	4= Severe
FLAMMABILITY	0	0	3= Serious
REACTIVITY	0	0	2= Moderate
OTHER/PROTECTION	-	D	1= Slight
			0= Minimal

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