# SAFETY DATA SHEET

**Revision Date** 28-Nov-2022 **Version** 2

## 1. IDENTIFICATION

**Product identifier**
**Product Name** URETHANE HARDENER - FAST

**Other means of identification**
**Product Code** KH2011-GL
**UN/ID no** UN1263
**SKU(s)** KH2011-GL, KH2011-HP, KH2011-QT

**Recommended use of the chemical and restrictions on use**
**Recommended Use** No information available.
**Uses advised against** No information available

**Details of the supplier of the safety data sheet**
**Supplier Address**
Custom Shop
6695 Rasha St.
San Diego, CA 92121
Phone: (858) 909-2110

**Emergency telephone number**
**Emergency Telephone** Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|---|---|
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
| Respiratory sensitization | Category 1 |
| Skin sensitization | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Flammable liquids | Category 3 |

**Emergency Overview**

**Danger**

**Hazard statements**
Harmful if inhaled
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause respiratory irritation. May cause drowsiness or dizziness
Flammable liquid and vapor

| **Appearance** No information available | **Physical state** Liquid | **Odor** No information available |
|---|---|---|

**Precautionary Statements - Prevention**
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/protective clothing/eye protection/face protection
Keep cool
Use explosion-proof electrical/ ventilating/ lighting/ equipment

If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician
In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**
Store in a well-ventilated place. Keep container tightly closed
Store locked up

**Precautionary Statements - Disposal**
Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**
**Other Information**
• May be harmful if swallowed
• May be harmful in contact with skin
• Toxic to aquatic life with long lasting effects
• Toxic to aquatic life
Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical name | CAS No | Weight-% | Trade Secret |
|---|---|---|---|
| Parachlorobenzotrifluoride | 98-56-6 | 30 - 60 | * |
| Polymeric Isocyanate | 28182-81-2 | 15 - 40 | * |
| Butyl Acetate | 123-86-4 | 10 - 30 | * |
| Methyl Amyl Ketone | 110-43-0 | 1 - 5 | * |

*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

**Description of first aid measures**

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Skin Contact** In the case of skin irritation or allergic reactions see a physician. Wash contaminated clothing before reuse.

**Inhalation** May cause allergic respiratory reaction.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** May cause sensitization by inhalation and skin contact. Treat symptomatically. Symptoms may be delayed.

## 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**
Flammable.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

**Explosion data**
**Sensitivity to Mechanical Impact** None.
**Sensitivity to Static Discharge** None.

**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**

**Personal precautions** Remove all sources of ignition. Use personal protective equipment as required.

**Environmental precautions**

**Environmental precautions** Do not flush into surface water or sanitary sewer system. 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.

**Methods for cleaning up** Soak up with inert absorbent material.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity).

**Incompatible materials** Incompatible with oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines** .

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|---|---|---|---|
| Parachlorobenzotrifluoride<br>98-56-6 | TWA: 2.5 mg/m³ F | TWA: 2.5 mg/m³ F<br>(vacated) TWA: 2.5 mg/m³ | IDLH: 250 mg/m³ F |
| Butyl Acetate<br>123-86-4 | STEL: 150 ppm<br>TWA: 50 ppm | TWA: 150 ppm<br>TWA: 710 mg/m³<br>(vacated) TWA: 150 ppm<br>(vacated) TWA: 710 mg/m³<br>(vacated) STEL: 200 ppm<br>(vacated) STEL: 950 mg/m³ | IDLH: 1700 ppm<br>TWA: 150 ppm<br>TWA: 710 mg/m³<br>STEL: 200 ppm<br>STEL: 950 mg/m³ |
| Methyl Amyl Ketone<br>110-43-0 | TWA: 50 ppm | TWA: 100 ppm<br>TWA: 465 mg/m³<br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 465 mg/m³ | IDLH: 800 ppm<br>TWA: 100 ppm<br>TWA: 465 mg/m³ |

*NIOSH Immediately Dangerous to Life or Health*

**Other Information** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Appropriate engineering controls**

**Engineering Controls** Showers
Eyewash stations
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** No special technical protective measures are necessary.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Physical state** Liquid
**Appearance** No information available
**Color** No information available
**Odor** No information available
**Odor threshold** No information available

| Property | Values | Remarks • Method |
|---|---|---|
| **pH** | No information available | |
| **Melting point / freezing point** | No information available | |
| **Boiling point / boiling range** | >= 78 °C / 172 °F | |
| **Flash point** | 33 °C / 92 °F | |
| **Evaporation rate** | No information available | |
| **Flammability (solid, gas)** | No information available | |
| **Flammability Limit in Air** | | |
| **Upper flammability limit:** | No information available | |
| **Lower flammability limit:** | No information available | |
| **Vapor pressure** | No information available | |
| **Vapor density** | No information available | |
| **Specific Gravity** | 1.16 | |
| **Water solubility** | No information available | |

| | |
|---|---|
| **Solubility in other solvents** | No information available |
| **Partition coefficient** | No information available |
| **Autoignition temperature** | No information available |
| **Decomposition temperature** | No information available |
| **Kinematic viscosity** | No information available |
| **Dynamic viscosity** | No information available |
| **Explosive properties** | No information available |
| **Oxidizing properties** | No information available |

**Other Information**

| | |
|---|---|
| **Softening point** | No information available |
| **Molecular weight** | No information available |
| **Liquid Density** | 9.65 lbs/gal |
| **Bulk density** | No information available |
| **Percent solids by weight** | 37.6% |
| **Percent volatile by weight** | 19.1% |
| **Percent solids by volume** | 37.2% |
| **Actual VOC (lbs/gal)** | 1.8 |
| **Actual VOC (grams/liter)** | 220.8 |
| **EPA VOC (lbs/gal)** | 2.9 |
| **EPA VOC (grams/liter)** | 352.1 |
| **EPA VOC (lb/gal solids)** | 5 |

## 10. STABILITY AND REACTIVITY

**Reactivity**
No data available

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
None under normal processing.

**Conditions to avoid**
Extremes of temperature and direct sunlight.

**Incompatible materials**
Incompatible with oxidizing agents.

**Hazardous decomposition products**
None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information** No data available

**Inhalation** May cause sensitization by inhalation.

**Eye contact** May cause irritation.

**Skin Contact** May cause irritation. May cause sensitization by skin contact.

**Ingestion** No data available.

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---|---|---|---|
| Parachlorobenzotrifluoride 98-56-6 | = 13 g/kg ( Rat ) | > 3300 mg/kg ( Rabbit ) | = 33 mg/L ( Rat ) 4 h |
| Polymeric Isocyanate | - | > 2000 mg/kg ( Rat ) | = 18500 mg/m³ ( Rat ) 1 h |

| | | | |
|---|---|---|---|
| 28182-81-2 | | | |
| Butyl Acetate<br>123-86-4 | = 10768 mg/kg ( Rat ) | > 17600 mg/kg ( Rabbit ) | = 0.74 mg/L ( Rat ) 4 h |
| Methyl Amyl Ketone<br>110-43-0 | = 1600 mg/kg ( Rat ) | = 10300 mg/kg ( Rabbit ) | 2000 - 4000 ppm ( Rat ) 6 h |

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

**Symptoms** No information available.

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

**Sensitization** May cause sensitization by inhalation and skin contact.
**Germ cell mutagenicity** No information available.
**Carcinogenicity** No information available.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Parachlorobenzotrifluoride<br>98-56-6 | - | Group 2B | - | X |

*IARC (International Agency for Research on Cancer)*
*Group 2B - Possibly Carcinogenic to Humans*
*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*
*X - Present*

**Reproductive toxicity** No information available.
**STOT - single exposure** No information available.
**STOT - repeated exposure** No information available.
**Target organ effects** Central nervous system, Eyes, Peripheral Nervous System (PNS), Respiratory system, Skin.
**Aspiration hazard** No information available.

**Numerical measures of toxicity - Product Information**

**The following values are calculated based on chapter 3.1 of the GHS document** mg/kg mg/l

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Toxic to aquatic life with long lasting effects

37.59% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| Parachlorobenzotrifluoride<br>98-56-6 | - | 3: 96 h Danio rerio mg/L LC50 semi-static | 3.68: 48 h Daphnia magna mg/L EC50 |
| Butyl Acetate<br>123-86-4 | 674.7: 72 h Desmodesmus subspicatus mg/L EC50 | 17 - 19: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Lepomis macrochirus mg/L LC50 static | - |
| Methyl Amyl Ketone<br>110-43-0 | - | 126 - 137: 96 h Pimephales promelas mg/L LC50 flow-through | - |

**Persistence and degradability**
No information available.

**Bioaccumulation**
No information available.

| Chemical name | Partition coefficient |
|---|---|
| Parachlorobenzotrifluoride<br>98-56-6 | 3.7 |
| Butyl Acetate<br>123-86-4 | 1.81<br>2.3 |
| Methyl Amyl Ketone<br>110-43-0 | 2.26 |

**Other adverse effects** No information available

## 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** Do not reuse container.

## 14. TRANSPORT INFORMATION

**DOT**

| | |
|---|---|
| **UN/ID no** | UN1263 |
| **Proper shipping name** | Paint related material |
| **Hazard class** | 3 |
| **Packing Group** | III |
| **Reportable Quantity (RQ)** | (Butyl Acetate: RQ (kg)= 2270.00) |
| **Special Provisions** | B1, B52, IB3, T2, TP1, TP29 |
| **Description** | UN1263, Paint related material, 3, III |
| **Emergency Response Guide Number** | 128 |

**TDG**

| | |
|---|---|
| **UN/ID no** | UN1263 |
| **Proper shipping name** | Paint related material |
| **Hazard class** | 3 |
| **Packing Group** | III |
| **Special Provisions** | 59, 83 |
| **Description** | UN1263, Paint related material, 3, III |

**MEX**

| | |
|---|---|
| **UN/ID no** | UN1263 |
| **Proper shipping name** | Paint related material |
| **Hazard class** | 3 |
| **Special Provisions** | 163, 223 |
| **Packing Group** | III |
| **Description** | UN1263, Paint related material, 3, III |

**ICAO (air)**

| | |
|---|---|
| **UN/ID no** | UN1263 |
| **Proper shipping name** | Paint related material |
| **Hazard class** | 3 |
| **Packing Group** | III |
| **Special Provisions** | A3, A72 |
| **Description** | UN1263, Paint related material, 3, III |

**IATA**

| | |
|---|---|
| **UN Number** | UN1263 |
| **Proper shipping name** | Paint related material |
| **Transport hazard class(es)** | 3 |
| **Packing Group** | III |
| **ERG Code** | 3L |
| **Special Provisions** | A3, A72 |
| **Description** | UN1263, Paint related material, 3, III |

**IMDG**

| | |
|---|---|
| **UN Number** | UN1263 |
| **Transport hazard class(es)** | 3 |
| **Packing Group** | III |

| | |
|---|---|
| **EmS-No** | F-E, S-E |
| **Special Provisions** | 163, 223, 955 |
| **Description** | UN1263, Paint related material, 3, III, (33°C c.c.) |

**RID**

| | |
|---|---|
| **UN/ID no** | UN1263 |
| **Proper shipping name** | Paint related material |
| **Transport hazard class(es)** | 3 |
| **Packing Group** | III |
| **Classification code** | F1 |
| **Special Provisions** | 163, 640E, 650 |
| **Description** | UN1263, Paint related material, 3, III |
| **Labels** | 3 |

**ADR**

| | |
|---|---|
| **UN Number** | UN1263 |
| **Proper shipping name** | Paint related material |
| **Transport hazard class(es)** | 3 |
| **Packing Group** | III |
| **Classification code** | F1 |
| **Tunnel restriction code** | (D/E) |
| **Special Provisions** | 163, 640E, 650 |
| **Description** | UN1263, Paint related material, 3, III, (D/E) |
| **Labels** | 3 |

**ADN**

| | |
|---|---|
| **Proper shipping name** | Paint related material |
| **Transport hazard class(es)** | 3 |
| **Packing Group** | III |
| **Classification code** | F1 |
| **Special Provisions** | 163, 640E, 650 |
| **Description** | UN1263, Paint related material, 3, III |
| **Hazard label(s)** | 3 |
| **Limited quantity (LQ)** | 5 L |
| **Ventilation** | VE01 |
| **Equipment Requirements** | PP, EX, A |

## 15. REGULATORY INFORMATION

**International Inventories**

| | |
|---|---|
| **TSCA** | Complies |
| **DSL/NDSL** | Complies |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations**

**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

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| **Acute health hazard** | No |
| **Chronic Health Hazard** | No |
| **Fire hazard** | Yes |
| **Sudden release of pressure hazard** | No |
| **Reactive Hazard** | No |

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Butyl Acetate<br>123-86-4 | 5000 lb | - | - | X |

**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) |
|---|---|---|---|
| Butyl Acetate<br>123-86-4 | 5000 lb | - | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

## US State Regulations

**California Proposition 65**

This product contains the following Proposition 65 chemicals

| Chemical name | California Proposition 65 |
|---|---|
| Parachlorobenzotrifluoride - 98-56-6 | Carcinogen |
| Ethanol - 64-17-5 | Carcinogen<br>Developmental |

**U.S. State Right-to-Know Regulations**

| Chemical name | New Jersey | Massachusetts |
|---|---|---|
| Parachlorobenzotrifluoride<br>98-56-6 | X | - |
| Butyl Acetate<br>123-86-4 | X | X |
| Methyl Amyl Ketone<br>110-43-0 | X | X |

| Chemical name | Pennsylvania |
|---|---|
| Butyl Acetate<br>123-86-4 | X |
| Methyl Amyl Ketone<br>110-43-0 | X |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** Not applicable

This product contains no Hazardous Air Pollutants individually at 1% by weight, or greater.

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health hazards** 2 | **Flammability** 3 | **Instability** 0 | **Physical and chemical properties** - |
| **HMIS** | **Health hazards** 2 * | **Flammability** 3 | **Physical hazards** 0 | **Personal protection** X |

*Chronic Hazard Star Legend* ** = Chronic Health Hazard*

**Revision Date** 28-Nov-2022

**Revision Note**

No information available

**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. Shipping information may vary based upon container size and shipping destination. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage, or release to the environment. The manufacturer assumes no responsibility for injury to the recipient or third persons, or for any damages to any property resulting from misuse of the product.**

**End of Safety Data Sheet**