SECTION I - IDENTIFICATION

Product identifier: Kastalon 3580 Bond Part B
Relevant identified uses: Epoxy curing agent
Restrictions on use: For industrial use only
Supplier: Kastalon Inc.
4100 W. 124th Place
Alsip, IL 60803-1876
Emergency telephone number: 708-389-2210
Telephone for information: 708-389-2210
Website: www.kastalon.com

SECTION II - HAZARD(S) IDENTIFICATION

Emergency Overview
Appearance
   liquid
Color
   dark amber
Odor
   ammoniacal

GHS Classification
Skin corrosion:
   Category 1B
Serious eye damage:
   Category 1
Skin sensitization:
   Category 1

GHS Label element
Hazard pictograms:

Signal Word: Danger
Hazard Statements:
   H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

Precautionary Statements:
Prevention:
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. P305 + P351 + P338 + P310 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. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P363 Wash contaminated clothing before reuse.

Storage:
P405 Store locked up.

Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.
Potential Health Effects

Carcinogenicity:

IARC
No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP
No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION III - COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance / Mixture:</th>
<th>Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous ingredients</td>
<td></td>
</tr>
<tr>
<td>Chemical Name</td>
<td>CAS-No.</td>
</tr>
<tr>
<td>Polyamide resin</td>
<td>68410-23-1</td>
</tr>
<tr>
<td>Triethylenetetramine</td>
<td>112-24-3</td>
</tr>
</tbody>
</table>

SECTION IV - FIRST-AID MEASURES

General advice:
Show this material safety data sheet to the doctor in attendance.

Inhalation:
Move to fresh air. If not breathing, give artificial respiration. Keep patient warm and at rest. Consult a physician after significant exposure.

Skin contact:
Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water. Call a physician if irritation develops or persists. Wash contaminated clothing before re-use.

Eye contact:
Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Protect unharmed eye.

Ingestion:
If swallowed, call a poison control center or doctor immediately. Do NOT induce vomiting. If victim is fully conscious, give a cupful of water. If possible drink milk afterwards.

SECTION V - FIRE-FIGHTING MEASURES

Extinguishing media:
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special information:
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Recommended firefighting procedures:
Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:
Refer to protective measures listed in sections 7 and 8.

Environmental precautions:
Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up: Soak up with inert absorbent material. Shovel into suitable container for disposal.

SECTION VII - HANDLING AND STORAGE

Local/Total ventilation: Use only with adequate ventilation.
Advice on safe handling: Wear personal protective equipment. Do not get on skin or clothing. Use only in an area equipped with a safety shower.
Conditions for safe storage: Keep containers tightly closed in a dry, cool and well-ventilated place.
Materials to avoid: No special restrictions on storage with other products.

SECTION VIII - EXPOSURE CONTROLS/PERSOANAL PROTECTION

Personal protective equipment
Respiratory protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Filter type: Combined particulates and organic vapor type.
Hand protection Material: Butyl-rubber
Eye protection: Safety glasses, face-shield. Ensure that eyewash stations and safety showers are close to the workstation location.
Skin and body protection: Long sleeved clothing. Chemical resistant apron
Protective measures: Avoid contact with skin.
Hygiene measures: Avoid contact with skin, eyes and clothing.

Ingredients with workplace control parameters
Contains no substances with occupational exposure limit values.
CAS-No.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid
Lower/upper explosive limits: Not determined
Odor: Ammoniacal
Odor threshold: No data available
Vapor pressure (mm Hg): Not determined
Flammability (solid, gas): Not classified as a flammability hazard
Freezing/melting point: Not determined
Boiling point/range: Not determined
Flash point: Not applicable
Evaporation rate: Not determined
Density: 7.900 - 8.100 lb/gal
Partition coefficient: n-octanol / water: No data available
pH: Not applicable
Auto-ignition temperature: Not determined
Solid Content, % by weight: 100
Decomposition temperature: No data available
Solubility in water: Not determined
Viscosity: Not determined

SECTION X - STABILITY AND REACTIVITY

Chemical stability: The product is chemically stable.
Hazardous decomposition or byproducts: Stable under normal conditions.
SECTION XI - TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Aspiration toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>No data available</td>
</tr>
<tr>
<td>Acute toxicity:</td>
<td></td>
</tr>
<tr>
<td>Product</td>
<td></td>
</tr>
<tr>
<td>Acute oral toxicity</td>
<td>Acute toxicity estimate: &gt; 5,000 mg/kg</td>
</tr>
<tr>
<td>Method: Calculation method</td>
<td></td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>Acute toxicity estimate: 3,438 mg/kg</td>
</tr>
<tr>
<td>Method: Calculation method</td>
<td></td>
</tr>
<tr>
<td>Ingredients:</td>
<td></td>
</tr>
<tr>
<td>triethylenetetramine:</td>
<td></td>
</tr>
<tr>
<td>Acute oral toxicity</td>
<td>LD50 Oral rat: 2,500 mg/kg</td>
</tr>
<tr>
<td>Acute dermal toxicity</td>
<td>LD50 Dermal rabbit: 550 mg/kg</td>
</tr>
</tbody>
</table>

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicity
Ingredients:
triethylenetetramine:
Toxicity to fish:
LC50 (Pimephales promelas (fathead minnow)): 495 mg/l
Exposure time: 96 h
Test Method: static test
Toxicity to daphnia and other aquatic invertebrates:
EC50 (Daphnia magna (Water flea)): 31.1 mg/l
Exposure time: 48 h
Test Method: static test
Toxicity to algae:
EC50 (Desmodesmus subspicatus (green algae)): 2.5 mg/l
Exposure time: 72 h
Test Type: flow-through test
Bioaccumulative potential: No data available
Mobility in soil: No data available
Other adverse effects: No data available
Persistence and degradability: No data available

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method
Waste from residues: To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended, as industry best practice. Consult state, local or provincial authorities for more restrictive requirements.
SECTION XIV – TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Mode of Transport</th>
<th>Land Transport ADR/RID and GGVS/GGVE (Cross Border / Domestic)</th>
<th>Maritime Transport IMDG/GGV Sea:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
</tbody>
</table>

Air Transport ICAO-TI and IATA-DGR:

Not regulated

UN number: None

SECTION XV – REGULATORY INFORMATION

Clean Air Act: This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

TCSA Status: All ingredients are listed on the TSCA inventory

SARA Title III, Section 302 Extremely Hazardous Substances: SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA Title III, Section 313 Toxic Chemical: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) report.

US State Regulations California Prop 65: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

DSL: All ingredients are listed.

Reach: Not in compliance with the inventory

AICS On the inventory, or in compliance with the inventory

NZIoC Not in compliance with the inventory

ENCS On the inventory, or in compliance with the inventory

KECI On the inventory, or in compliance with the inventory

PICCS On the inventory, or in compliance with the inventory

IECSC On the inventory, or in compliance with the inventory

TWINV Not in compliance with the inventory

Inventories Legend TSCA (USA), DSL (Canada), REACH(Europe), AICS (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)
SECTION XVI – OTHER INFORMATION

Further information

NFPA:

HMIS III:

<table>
<thead>
<tr>
<th></th>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

Date prepared: 2016-03-05

This safety data sheet is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. It is not meant to be an all-inclusive document on worldwide hazard communication regulation. This information is believed to be accurate as of the date issued. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent exposures, property damage, or release to the environment. No warranty is expressed or implied with respect to the information herein supplied, and no responsibility for injury to the recipient or third persons, or for any damage to any property is assumed.