



SAFETY DATA SHEET

According to OSHA Hazard Communication Standard 29 CFR 1910.1200 (GHS)

Product Name: THERMOSET TSA4020-2 PART B (HARDENER)
Revision Date: 04/15/2020
Revision Number: 1

1. IDENTIFICATION

Product Name: THERMOSET TSA4020-2 PART B (HARDENER)
General Use: Polyurethane curative
Chemical Family: Polyol mixture
Product Use: For industrial and professional use only.
This material is used for the production of cast polyurethane elastomers and should not be used for spray systems.

Supplier Details: Thermoset Solutions, LLC

Emergency Phone : CHEMTREC US 1-800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not a dangerous substance according to GHS

GHS Label Elements, including precautionary statements

GHS Signal Word: Warning

GHS Hazard Pictograms: None

GHS Hazard Statements: None

GHS Precautionary Statements: None



3. COMPOSITION / INFORMATION ON INGREDIENTS

| CAS NO. | Chemical name | Concentration (%) |
|-------------|--------------------------|-------------------|
| Proprietary | Polyether polyol mixture | 60 – 100 % |

4. FIRST AID MEASURES

- Inhalation:** Move to an area free from further exposure. Extreme asthmatic reactions may occur in sensitized persons can be life threatening. Get medical attention immediately. Administer oxygen or artificial respiration as needed. Asthmatic symptoms may develop and may be immediate or delayed up to several hours.
- Eyes:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek immediate medical attention.
- Skin:** Flush skin with plenty of water for at least 5 minutes while removing contaminated clothing and shoes. Wash thoroughly with soap and water. Get medical attention if irritation or rash develops on affected area. Wash clothing before reuse.
- Ingestion:** Call a physician immediately. Rinse mouth and drink plenty of water. Do not induce vomiting. Remove stomach contents only as directed by medical personnel. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Suitable media includes water spray, foam, carbon dioxide, or dry chemical.

Recommendations: Firefighters should wear positive pressure self-contained breathing apparatus (SCBA) and consider use of unmanned hose holders or monitor nozzles for fighting large fires. Cool fire exposed containers with water spray. Remove containers from the fire area if possible. Do not release runoff from fire control methods to sewers or waterways.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Evacuate personnel. Wear suitable PPE as described in section 8.

Environmental precautions: Prevent migration into groundwater, sewers, or streams. Land spills may require excavation of contaminated soil. Material should not be released into the environment.

Methods for cleaning up: **Small Amounts:** Evacuate the area. Clean-up should only be performed by trained personnel. People dealing with a major spill should wear full protective clothing including appropriate respiratory protection. Prevent product from entering sewers or waterways. Neutralize small spills with a decontaminant.

Large Amounts: Contain and absorb large spills onto an inert, non-flammable absorbent carrier (such as earth or sand). Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spill area clean with a liquid decontaminant. Remove and properly dispose of residues. Notify applicable government authorities if release is reportable. (See CERCLA in Section 15)

Residues: The following measures should be taken for final clean-up: Wash down spill area with decontamination solution. Allow solution to stand for at least 10 minutes. Dike spillage.

7. HANDLING AND STORAGE

General: Mix thoroughly before use.

Handling: Avoid contact with eyes, skin and clothing. Use only with adequate ventilation. Avoid breathing vapor over open containers. Avoid open container exposure to damp air. Avoid breathing aerosols, mists, and vapors. Use appropriate personal protective equipment as specified in Section 8. Handle in a well ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

Storage: Store material at ambient temperatures (18°C – 29°C) and pressure. Keep away from sources of direct heat and moisture. Keep container tightly closed when not in use, and seal with nitrogen blanket. Material is stable under normal conditions.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Provide local exhaust ventilation to keep airborne concentrations below the recommended occupational exposure limits.

Personal Protective

Equipment: HMIS PP, C: Safety Glasses, Gloves, Apron
Type of protection (Minimum Suggested Equipment)
Hand: Chemical resistant gloves (i.e. nitrile, latex, butyl rubber)
Eye: Safety glasses with side shields or safety goggles
Skin: Impervious clothing, including but not limited to apron, full body suit, chemical resistant shoes or shoe covers. Use long sleeves at a minimum.
Respiratory: If concentrations are above the occupational exposure limits, an approved respirator should be used (air purifying or air supplied)
Additional: Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions.

Components with workplace control parameters:

| Component | USA.ACGIH (TLV) | USA.OSHA – TABLE Z-1 1910. |
|--------------------------|-----------------|----------------------------|
| Polyether polyol mixture | NE | NE |

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear
Physical State: Liquid
Odor Threshold: No data available
Particle Size: No data available
Specific Gravity: 1.02
Viscosity: 600 Centipoise at 25°C (77°F)
Boiling Point: No data available
Flammability: N/A
Partition Coefficient: No data available
Vapor Pressure: 0.00001 mm Hg at 25°C (77°F)
PH: No data available
Evap. Rate: No data available
Decomp. Temp.: No data available
Odor: Slight amine odor
Solubility: Slightly soluble in water
Freezing/Melting Pt: No data available
Flash Point: >182°C (Closed Cup)
Vapor Density: No data available
Auto-Ignition Temp: No data available
UFL/LFL: No data available

10. STABILITY AND REACTIVITY

Stability: This product is stable under normal ambient conditions of temperature and pressure.
Conditions to Avoid: Avoid moisture, extreme temperatures, and contact with incompatible materials.
Materials to Avoid: Isocyanates, strong oxidizing agents, and strong acids.
Hazardous Decomposition: Carbon oxides, nitrogen oxides, and sulfur oxides.
Hazardous Polymerization: No dangerous reactions will occur under normal use/storage conditions.

11. TOXICOLOGICAL INFORMATION

| Chemical Name | Oral LD50 (rat) | Dermal LD50 (rabbit) | Inhalation LC50 (rat) |
|--------------------------|-----------------|----------------------|-----------------------|
| Polyether polyol mixture | NE | NE | NE |

Sensitization: May cause sensitization by skin contact.

12. ECOLOGICAL INFORMATION

| | |
|--------------------------------------|--------------------|
| Environmental Data: | No data available. |
| Ecotoxicological Information: | No data available. |
| Bioaccumulation/Accumulation: | No data available. |
| Distribution: | No data available. |
| Chemical Fate Information: | No data available. |

13. DISPOSAL INFORMATION

Waste treatment methods: Follow all applicable local, state, and federal disposal regulations.

Spillage in sewers or watercourses is not allowed.

The residues, including the empty containers, must be eliminated in a controlled manner. The empty containers must be recycled, recovered or eliminated by authorized and/or qualified administrators. In any case, the treatment adopted must be carried out in a licensed facility. Do not attempt to refill or clean containers since residue is difficult to remove. Do not burn or cut open with gas or electric torch as toxic decomposition products may be liberated. Do not reuse empty containers.

14. TRANSPORT INFORMATION

DOT / IMDG / IATA / ICAO: Not classified as a dangerous good under transport regulations.

15. REGULATORY INFORMATION

Component (CAS#) [%] – CODES

None

Regulatory Code Descriptions

| | |
|----------|---|
| RQ: | Reportable Quantity |
| CERCLA: | Superfund clean-up substance |
| HAP: | Hazardous Air Pollutants |
| MASS: | MA Massachusetts Hazardous Substances List |
| NJHS: | NJ Right-to-know Hazardous Substances |
| OSHAWAC: | OSHA Workplace Air Contaminants |
| PA: | PA Right-To-Know List of Hazardous Substances |
| SARA313: | SARA 313 Title III Toxic Chemicals |
| TSCA: | Toxic Substances Control Act |
| TXAIR: | TX Air Contaminants with Health Effects Screening Level |

16. OTHER INFORMATION

HMIS III: Health = 1 (chronic), Fire = 1, Physical Hazard = 0

HMIS PPE: C – Safety Glasses, Gloves, Apron

Manufacturer Disclaimer: This SDS complies with 29 CFR 1910.1200 (The Hazard Communication Standard, USA) and GHS. Although the information and recommendations set forth herein (hereinafter “information”) are presented in good faith and believed to be correct as of the date hereof, Thermoset Solutions, LLC makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that persons receiving same will make their own determination as to its suitability for their purpose prior to use. In no event will Thermoset Solutions, LLC be responsible for damages of any nature whatsoever resulting from the use of, misuse or reliance upon information. No representations or warranties either express or implied, or merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to information or the product to which information refers. Regulatory requirements are subject to change and may differ from one location to another. It is the buyer’s responsibility to ensure its activities comply with federal, state or provincial and local laws and regulations.



1-800-375-0605
Option 8 for 24/7 Service



6550 Oley Speaks Way
Canal Winchester, OH 43110



www.RudolphBros.Com
RBCsupport@RudBro.Com