

## SAFETY DATA SHEET

### Section 1. Identification

**Product identifier** : UP2381  
**Product name** : SYSTEM 20 FAST HARDENER 2.1 VOC  
**Other means of identification** : UP2382; UP2385

**Date of issue** : 4/1/2026  
**Version** : 1.15

#### Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** : Coating component.  
**Uses advised against** : Not for sale to or use by consumers.

**Supplier's details** : U-POL US Inc.  
 50 Applied Bank Blvd.  
 Suite 300  
 Glen Mills, Pennsylvania 19342  
 T (610) 746 7081  
 technicalsupport@u-pol.com  
 (855) 6-AXALTA

#### Product information

**Emergency telephone number** : CHEMTREC: +44 (0) 870 8200418 (24 hrs)

### Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 2  
 SKIN IRRITATION - Category 2  
 EYE IRRITATION - Category 2A  
 SKIN SENSITIZATION - Category 1  
 CARCINOGENICITY - Category 2  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

#### GHS label elements

##### Hazard pictograms



##### Signal word

: Danger

## Section 2. Hazards identification

|   |  |
|---|--|
| <b>Hazard statements</b>                | : H225 - Highly flammable liquid and vapor.<br>H315 - Causes skin irritation.<br>H317 - May cause an allergic skin reaction.<br>H319 - Causes serious eye irritation.<br>H335 - May cause respiratory irritation.<br>H336 - May cause drowsiness or dizziness.<br>H351 - Suspected of causing cancer.<br>H370 - Causes damage to organs.   |
| <b>Precautionary statements</b>         |  |
| <b>Prevention</b>                       | : P201 - Obtain special instructions before use.<br>P280 - Wear protective gloves, protective clothing and eye or face protection.<br>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P260 - Do not breathe vapor.<br>P270 - Do not eat, drink or smoke when using this product.<br>P264 - Wash hands thoroughly after handling.  |
| <b>Response</b>                         | : P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor.<br>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.<br>P362 + P364 - Take off contaminated clothing and wash it before reuse.<br>P302 + P352 - IF ON SKIN: Wash with plenty of water.<br>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.<br>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337 + P313 - If eye irritation persists: Get medical advice or attention. |
| <b>Storage</b>                          | : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.   |
| <b>Disposal</b>                         | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.   |
| <b>Hazards not otherwise classified</b> | : None known.  |
| <b>Hazards identified when used</b>     | : No known significant effects or critical hazards.  |

## Section 3. Composition/information on ingredients

|                                      |                  |
|--------------------------------------|------------------|
| <b>Substance/mixture</b>             | : Mixture        |
| <b>Other means of identification</b> | : UP2382; UP2385 |

| Ingredient name                | Synonyms   | %         | Identifiers     |
|--------------------------------|--|-----------|-----------------|
| methyl acetate                 | Acetic acid, methyl ester; Methyl ester of acetic acid; Methyl ethanoate; Acetic acid methyl ester; ACETATE, METHYL; Acetic methylester  | ≥30 - ≤60 | CAS: 79-20-9    |
| ALIPHATIC POLYISOCYANATE RESIN | Hexane, 1,6-diisocyanato-, homopolymer; Hexamethylene diisocyanate, homopolymer; Hexamethylene diisocyanate polymer; Isocyanic acid, hexamethylene ester; Hexamethylene diisocyanate (HDI) homopolymer; Poly (hexamethylene diisocyanate); | ≥15 - ≤40 | CAS: 28182-81-2 |

### Section 3. Composition/information on ingredients

|  |   |                       |                 |
|--|---|-----------------------|-----------------|
|  | <p>Polymer of 1,6-diisocyanatohexane; Trimer of isocyanate monomer (including crude tolylene diisocyanate, polymethylene polyphenyl polyisocyanate), and polymer thereof (i.e. isocyanurate-containing isocyanate).; Polymer (i.e.urethodione group bearing isocyanate) of isocyanate monomer; Condensate (i.e. carbodiimide group-bearing isocyanate) or isocyanate monomer;<br/>1,6-Diisocyanatohexane homopolymer</p>  |                       |                 |
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | <p>Benzene, 1-chloro-4-(trifluoromethyl)-; Benzene, 1-chloro-4-trifluoromethyl)-; 4-Chlorobenzotrifluoride; 1-chloro-4-(trifluoromethyl)benzene; Toluene, p-chloro-alpha,alpha,alpha-trifluoro-; p-chloro-<math>\alpha,\alpha,\alpha</math>-trifluorotoluene; para-chlorobenzotrifluoride; PCBTF; 4-trifluoromethylchlorobenzene; p-chlorobenzotrifluoride; parachlorobenzotrifluoride</p>  | $\geq 10 - \leq 30$   | CAS: 98-56-6    |
| n-butyl acetate                                    | <p>Acetic acid, butyl ester; Butyl Acetate; n-Butyl-acetate; Butyl ethanoate; n-Butyl ester of acetic acid; product composed of hydrocarbons (predominantly paraffinic and naphthenic) and n-butyl acetate; 1-butyl acetate; 1-Acetoxybutane; Butyl ester, Acetic acid; normal butyl acetate; Acetic acid, n-butyl ester</p>  | $\geq 1 - \leq 5$     | CAS: 123-86-4   |
| solvent naphtha (petroleum), light aromatic        | <p>Low boiling point naphtha - unspecified; Solvent naphtha (petroleum), light arom; Solvent naphtha, petroleum, light aromatic; Aromatic hydrocarbon solvents - medium flashpoint; Light aromatic solvent naphtha; Solvent naphtha, light aromatic; Solvent naphtha (petroleum), light aromatic; Light aromatic solvent naphtha (petroleum) (C8 to C10); Solvent naphtha, petroleum, light arom.; AROMATIC PETROLUEM DISTILLATE; SOLVENT, AROMATIC PETROLEUM</p> | $\geq 0.5 - \leq 1.5$ | CAS: 64742-95-6 |

## Section 3. Composition/information on ingredients

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.**

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Causes damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

## Section 4. First aid measures

- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
halogenated compounds  
carbonyl halides

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

## Section 7. Handling and storage

### Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.



## Section 8. Exposure controls/personal protection

solvent naphtha (petroleum), light aromatic

**OSHA PEL 1989 (United States, 3/1989)**  
 TWA 8 hours: 150 ppm.  
 TWA 8 hours: 710 mg/m<sup>3</sup>.  
 STEL 15 minutes: 200 ppm.  
 STEL 15 minutes: 950 mg/m<sup>3</sup>.  
**ACGIH TLV (United States, 1/2024) [Butyl acetates]**  
 STEL 15 minutes: 150 ppm.  
 TWA 8 hours: 50 ppm.  
 None.

### Biological exposure indices

No exposure indices known.

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## Section 8. Exposure controls/personal protection

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### Appearance

**Physical state** : Liquid.  
**Color** : Clear.  
**Odor** : Not available.  
**Odor threshold** : Not available.  
**pH** : Not applicable.  
**Melting point/freezing point** : Technically not possible to measure  
**Boiling point or initial boiling point and boiling range** : 55 to 139.1°C (131 to 282.4°F)  
**Flash point** : Closed cup: -6.556°C (20.2°F)  
**Evaporation rate** : Not available.  
**Flammability** : Not available.  
**Lower and upper explosion limit/flammability limit** : Lower: 0.9%  
Upper: 16%  
**Vapor pressure** : 9.6 kPa (71.92 mm Hg)  
**Relative vapor density** : Not available.  
**Relative density** : Not available.  
**Density** : 1.058 g/cm<sup>3</sup>  
**Solubility in water** : Not available.  
**Miscible with water** : Yes.  
**Partition coefficient: n-octanol/water** : Not applicable.  
**Auto-ignition temperature** : 280°C (536°F)  
**Decomposition temperature** : Not applicable.  
**Viscosity** : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C (104°F)): Not available.

### Particle characteristics

**Median particle size** : Not applicable.

## Section 10. Stability and reactivity

**Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** : The product is stable.

**Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

## Section 10. Stability and reactivity

- Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
- Incompatible materials** : Reactive or incompatible with the following materials:  
oxidizing materials
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

##### Product/ingredient name

methyl acetate

##### Result

**Rat - Oral - LD50**

>5 g/kg

**Rabbit - Dermal - LD50**

>5 g/kg

ALIPHATIC POLYISOCYANATE RESIN

**Rat - Inhalation - LC50 Dusts and mists**

18500 mg/m<sup>3</sup> [1 hours]

4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene

**Rat - Oral - LD50**

13 g/kg

n-butyl acetate

**Rat - Oral - LD50**

10768 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Lung, Thorax, or Respiration - Other changes Liver - Other changes

**Rabbit - Dermal - LD50**

>17600 mg/kg

**Rat - Inhalation - LC50 Vapor**

21.1 mg/l [4 hours]

solvent naphtha (petroleum), light aromatic

**Rat - Oral - LD50**

8400 mg/kg

Toxic effects: Behavioral - Somnolence (general depressed activity) Behavioral - Tremor Lung, Thorax, or Respiration - Other changes

**Rabbit - Dermal - LD50**

3492 mg/kg

**Conclusion/Summary [Product]** : Not available.

#### Skin corrosion/irritation

##### Product/ingredient name

methyl acetate

##### Result

**Rabbit - Skin - Mild irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 500 mg

**Rabbit - Skin - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 20 mg

**Conclusion/Summary [Product]** : Not available.

## Section 11. Toxicological information

### Serious eye damage/eye irritation

#### Product/ingredient name

methyl acetate

#### Result

**Rabbit - Eyes - Moderate irritant**

Duration of treatment/exposure: 24 hours

Amount/concentration applied: 100 mg

**Conclusion/Summary [Product]** : Not available.

### Respiratory corrosion/irritation

Not available.

**Conclusion/Summary [Product]** : Not available.

### Respiratory or skin sensitization

#### Product/ingredient name

ALIPHATIC POLYISOCYANATE RESIN

#### Result

**Mouse - skin**

OECD [Skin Sensitization: Local Lymph Node Assay]

Result: Sensitizing

#### Skin

**Conclusion/Summary [Product]** : Not available.

#### Respiratory

**Conclusion/Summary [Product]** : Not available.

### Germ cell mutagenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Carcinogenicity

Not available.

**Conclusion/Summary [Product]** : Not available.

### Classification

| Product/ingredient name                            | OSHA | IARC | NTP |
|--|------|------|-----|
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | -    | 2B   | -   |

### Reproductive toxicity

Not available.

**Conclusion/Summary [Product]** : Not available.

## Section 11. Toxicological information

### Specific target organ toxicity (single exposure)

| Product/ingredient name                            | Result   |
|--|--|
| Methyl acetate                                     | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1                                |
| ALIPHATIC POLYISOCYANATE RESIN                     | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3             |
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| n-butyl acetate                                    | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| solvent naphtha (petroleum), light aromatic        | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3             |
|  | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
|  | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3             |

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

| Product/ingredient name                     | Result                         |
|---|--------------------------------|
| solvent naphtha (petroleum), light aromatic | ASPIRATION HAZARD - Category 1 |

### Information on the likely routes of exposure

Not available.

### Potential acute health effects

|                     |   |
|---------------------|---|
| <b>Eye contact</b>  | : Causes serious eye irritation.  |
| <b>Inhalation</b>   | : Causes damage to organs following a single exposure if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. |
| <b>Skin contact</b> | : Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. May cause an allergic skin reaction.  |
| <b>Ingestion</b>    | : Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.  |

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

|                    |  |
|--------------------|--|
| <b>Eye contact</b> | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness   |
| <b>Inhalation</b>  | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo |

## Section 11. Toxicological information

- unconsciousness
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

### Potential chronic health effects

Not available.

- Conclusion/Summary [Product]** : Not available.

- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name                            | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|--|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| FAST HARDENER 2.1VOC (OPTS38)                      | N/A          | 249126.2       | N/A                      | N/A                        | 12.4                                |
| ALIPHATIC POLYISOCYANATE RESIN                     | N/A          | N/A            | N/A                      | N/A                        | 4.625                               |
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | 13000        | N/A            | N/A                      | N/A                        | N/A                                 |
| n-butyl acetate                                    | 10768        | N/A            | N/A                      | 21.1                       | N/A                                 |
| solvent naphtha (petroleum), light aromatic        | 8400         | 3492           | N/A                      | N/A                        | N/A                                 |

## Section 12. Ecological information

### Toxicity

| Product/ingredient name                            | Result  |
|--|---|
| <input checked="" type="checkbox"/> methyl acetate | <b>Acute - LC50 - Fresh water</b><br>Fish - Fathead minnow - <i>Pimephales promelas</i><br>Age: 28 to 32 days; Size: 17.5 mm; Weight: 0.087 g<br>320 mg/l [96 hours]<br>Effect: Mortality |
| ALIPHATIC POLYISOCYANATE RESIN                     | <b>Acute - LC50</b><br>Fish - <i>danio rerio</i><br>>100 mg/l [96 hours]<br><b>Acute - EC50</b><br>Daphnia - <i>Daphnia magna</i><br>>100 mg/l [48 hours]                                 |
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | <b>Acute - LC50 - Fresh water</b><br>OECD [Fish, Acute Toxicity Test]<br>Fish<br>3 mg/l [96 hours]  |
| n-butyl acetate                                    | <b>Acute - LC50 - Marine water</b><br>Fish - Inland silverside - <i>Menidia beryllina</i><br>185 ppm [96 hours]<br>Effect: Mortality  |

**Conclusion/Summary [Product]** : Not available.

### Persistence and degradability

| Product/ingredient name  | Result  |
|--|---|
| <input checked="" type="checkbox"/> ALIPHATIC POLYISOCYANATE RESIN | <b>Aerobic</b><br>1% [28 days] - Not readily  |
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene                 | <b>Aerobic</b><br>OECD [Ready Biodegradability - Closed Bottle Test]<br>19.2% [28 days] - Not readily |

**Conclusion/Summary [Product]** : Not available.

| Product/ingredient name  | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| <input checked="" type="checkbox"/> ALIPHATIC POLYISOCYANATE RESIN | -                 | -          | Not readily      |
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene                 | -                 | -          | Not readily      |

### Bioaccumulative potential

| Product/ingredient name                            | LogP <sub>ow</sub> | BCF        | Potential |
|--|--------------------|------------|-----------|
| <input checked="" type="checkbox"/> methyl acetate | 0.18               | -          | Low       |
| ALIPHATIC POLYISOCYANATE RESIN                     | 5.54               | 367.7      | Low       |
| n-butyl acetate                                    | 2.3                | -          | Low       |
| solvent naphtha (petroleum), light aromatic        | -                  | 10 to 2500 | High      |

### Mobility in soil

## Section 12. Ecological information

**Soil/Water partition coefficient** : Not available.






### Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                                   | DOT<br>Classification  | TDG<br>Classification  | Mexico<br>Classification   | IMDG   | IATA   |
|-----------------------------------|--|--|--|--|--|
| <b>UN number</b>                  | UN1263   | UN1263   | UN1263   | UN1263   | UN1263   |
| <b>UN proper shipping name</b>    | PAINT RELATED MATERIAL   | PAINT RELATED MATERIAL   | PAINT RELATED MATERIAL   | PAINT RELATED MATERIAL   | PAINT RELATED MATERIAL   |
| <b>Transport hazard class(es)</b> | 3<br> | 3<br> | 3<br> | 3<br> | 3<br> |
| <b>Packing group</b>              | II   | II   | II   | II   | II   |
| <b>Environmental hazards</b>      | No.  | No.  | No.  | No.  | No.  |

### Additional information

**TDG Classification** : Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to IMO instruments** : Not available.

## Section 14. Transport information

The actual shipping description for this product may vary based several factors including, but not limited to, the volume of material, size of the container, mode of transport and use of exemptions or exceptions found in the applicable regulations. The information provided in Section 14 is one possible shipping description for this product. Consult your shipping specialist or supplier for appropriate assignment information.

## Section 15. Regulatory information

### U.S. Federal regulations

**TSCA 8(a) PAIR:** methyl acetate; 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene; naphthalene

**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

**TSCA 8(c) calls for record of SAR:** hexamethylene-di-isocyanate

**Clean Water Act (CWA) 307:** naphthalene; benzene

**Clean Water Act (CWA) 311:** n-butyl acetate; XYLENE ; naphthalene; benzene

### TSCA 12(b) - Chemical export notification

Not applicable.

**Clean Air Act Section 112** : Listed

**(b) Hazardous Air Pollutants (HAPs)**

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : FLAMMABLE LIQUIDS - Category 2  
SKIN IRRITATION - Category 2  
EYE IRRITATION - Category 2A  
SKIN SENSITIZATION - Category 1  
CARCINOGENICITY - Category 2  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

#### Composition/information on ingredients

## Section 15. Regulatory information

| Name   | %           | Classification   |
|--|-------------|--|
| Methyl acetate                                     | ≥30 - ≤60   | FLAMMABLE LIQUIDS - Category 2<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3  |
| ALIPHATIC POLYISOCYANATE RESIN                     | ≥15 - ≤40   | ACUTE TOXICITY (inhalation) - Category 4<br>SKIN SENSITIZATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  |
| 4-chloro- $\alpha,\alpha,\alpha$ -trifluorotoluene | ≥10 - ≤30   | FLAMMABLE LIQUIDS - Category 3<br>SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A<br>CARCINOGENICITY - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3                       |
| n-butyl acetate                                    | ≥1 - ≤5     | FLAMMABLE LIQUIDS - Category 2<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3   |
| solvent naphtha (petroleum), light aromatic        | ≥0.5 - ≤1.5 | FLAMMABLE LIQUIDS - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3<br>ASPIRATION HAZARD - Category 1 |

### State regulations

|                      |  |
|----------------------|--|
| <b>Massachusetts</b> | : The following components are listed: METHYL ACETATE; BUTYL ACETATE                       |
| <b>New York</b>      | : The following components are listed: Butyl acetate                                       |
| <b>New Jersey</b>    | : The following components are listed: METHYL ACETATE; n-BUTYL ACETATE                     |
| <b>Pennsylvania</b>  | : The following components are listed: ACETIC ACID, METHYL ESTER; ACETIC ACID, BUTYL ESTER |

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

|                      |  |
|----------------------|--|
| <b>Canada</b>        | : All components are listed or exempted. |
| <b>United States</b> | : All components are listed or exempted. |

## Section 16. Other information

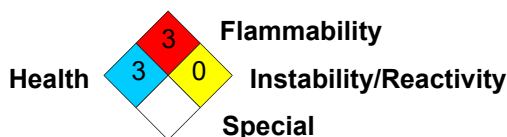
### Hazardous Material Information System (U.S.A.)

|                  |   |   |
|------------------|---|---|
| Health           | * | 4 |
| Flammability     |   | 3 |
| Physical hazards |   | 0 |
|                  |   |   |

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

### National Fire Protection Association (U.S.A.)



### History

Date of issue : 4/1/2026

Version : 1.15

Product stewardship and regulatory compliance.

### Key to abbreviations

: ATE = Acute Toxicity Estimate

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

▣ Indicates information that has changed from previously issued version.

### Notice to reader

This product is intended for industrial use only.

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## **Section 16. Other information**

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