SAFETY DATA SHEET

According to U.S. Code of Federal Regulations 29 CFR 1910.1200, Hazard Communication.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: TL 10 Acrylate

Type of product: Mixture.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Monomer for polymerization.

Uses advised against: All non-monomeric uses and all uses resulting in aerosols.

1.3. Details of the supplier of the safety data sheet

Tri-State Waterstoppers, LLC

Company: 99 Depot Street,

Youngwood, PA 15697

United States

Telephone: 724-635-3389

1.4. Emergency telephone number

24-hour emergency number: 724-880-9698

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to paragraph (d) of 29 CFR 1910.1200:

Not classified.

2.2. Label elements

Labelling according to paragraph (f) of 29 CFR 1910.1200:

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Hazard symbol(s):

Signal word:

None.

Hazard statement(s):

None.

Precautionary statement(s):

None.

2.3. Other hazards

None.

For explanation of abbreviations see Section 16.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable, this product is a mixture.

3.2. Mixtures

This product is a mixture.

Hazardous components

2-Propen-1-aminium, N,N,N-tri-2-propen-1-yl-, chloride

Concentration/-range: < 1%

CAS Number: 13107-10-3

Classification according to paragraph (d)

of 29 CFR 1910.1200:

Skin Sens. 1B;H317

For explanation of abbreviations see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Move to fresh air. No hazards which require special first aid measures.

Skin contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. In case of persistent skin irritation, consult a physician.

Eve contact:

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In case of persistent eye irritation, consult a physician.

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Ingestion:

If swallowed, and the victim is conscious and alert, induce vomiting immediately, as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

4.2. Most important symptoms and effects, both acute and delayed

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.

4.3. Indication of any immediate medical attention and special treatment needed.

None.

Other information:

None.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media:

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

Unsuitable extinguishing media:

None known.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products:

Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NOx), carbon oxides (COx). Hydrogen cyanide (hydrocyanic acid) may be produced in the event of combustion in an oxygen deficient atmosphere.

5.3. Advice for fire-fighters

Protective measures:

Wear full protective clothing and self-contained breathing apparatus.

Other information:

Cool tanks with water to avoid polymerization.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:

Avoid contact with skin and eyes.

Protective equipment:

Wear adequate personal protective equipment (see Section 8 Exposure Controls/Personal Protection).

Emergency procedures:

Keep people away from spill/leak. Prevent further leakage or spillage if safe to do so.

6.2. Environmental precautions

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Do not allow contact with soil, surface or ground water.

6.3. Methods and material for containment and cleaning up

Small spills:

<u>Do not flush with water.</u> Cover and soak up with a suitable absorbent material, e.g. diatomite. Keep in suitable, closed containers for disposal.

Large spills:

<u>Do not flush with water.</u> Do not allow solution to dry. Contain with dike. Pump into suitable and properly labelled containers. One-to-one (volume) dilution is suitable to reduce reactivity.

Residues:

After cleaning, flush away traces with water.

6.4. Reference to other sections

Section 7 - Handling and Storage, Section 8 - Exposure Controls/ Personal Protection, Section 13 - Disposal considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid creating aerosols. Avoid contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Store indoors, out of direct sunlight, in a dry, well-ventilated place, between 40°F and 80°F. Avoid acids, bases, oxidizing agents, reducing agents, initiators which may cause polymerization.

7.3. Specific end use(s)

Monomer for polymerization.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

None known.

8.2. Exposure controls

Appropriate engineering controls:

Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.

Individual protection measures, such as personal protective equipment:

a) Eye/face protection:

Splash glasses for normal handling conditions.

b) Skin protection:

i) Hand protection: Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

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ii) Other: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.

c) Respiratory protection:

No personal respiratory protective equipment normally required.

d) Additional advice:

Do not carry food, drink or cigarettes in areas where this product is handled, stored or processed. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls:

q) Decomposition temperature:

Avoid/prevent all emissions through measures such as recycling to process, treatment of emissions or incineration.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Liquid, Orange. a) Appearance: Slight. b) Odour: Not applicable. c) Odour Threshold: 6 - 8 d) pH: < 0°C e) Melting point/freezing point: > 100°C f) Initial boiling point and boiling range: No data available. f) Initial boiling point and boiling range: Does not flash. 9) Flash point: No data available. h) Evaporation rate: Not applicable. i) Flammability (solid, gas): Not expected to create explosive atmospheres. j) Upper/lower flammability or explosive limits: 2.3 kPa @ 20°C k) Vapor pressure: No data available. k) Vapor pressure: I) Vapor density: Equivalent to water (~0.8 g/l). 1.0 - 1.3m) Relative density: Completely miscible. n) Solubility(ies): No data available. o) Partition coefficient: No data available. p) Autoignition temperature:

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No data available.

r) Viscosity: See Technical Bulletin.

s) Explosive properties:

Not expected to be explosive based on the chemical structure.

t) Oxidizing properties:

Not expected to be oxidizing based on the chemical structure.

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

May polymerize if not correctly stabilized.

10.4. Conditions to avoid

Protect from frost, heat and sunlight. Keep away from heat and sources of ignition.

10.5. Incompatible materials

Avoid acids, bases, oxidizing agents, reducing agents, initiators which may cause polymerization.

10.6. Hazardous decomposition products

Thermal decomposition may produce: hydrogen chloride gas, nitrogen oxides (NOx), carbon oxides (COx). Hydrogen cyanide (hydrocyanic acid).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on the product as supplied:

Acute oral toxicity: LD50/oral/rat > 2000 mg/kg (Estimated)

Acute dermal toxicity: LD50/dermal/rat > 2000 mg/kg. (Estimated)

Acute inhalation toxicity: The product is not expected to be toxic by inhalation.

Skin corrosion/irritation: Not irritating.

Serious eye damage/eye irritation: Not irritating.

Respiratory/skin sensitization: The product contains a small amount of sensitizing substances which may provoke an

allergic reaction among sensitive individuals in contact with skin.

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Mutagenicity: Based on available data, product is not expected to be mutagenic.

Carcinogenicity: Based on available data, product is not expected to be carcinogenic.

Reproductive toxicity: Based on available data, product is not expected to be toxic for reproduction.

STOT - Single exposure: No known effects.

STOT - Repeated exposure: No known effect.

Aspiration hazard: No hazards resulting from the material as supplied.

Relevant information on the hazardous components:

2-Propen-1-aminium, N,N,N-tri-2-propen-1-yl-, chloride

Acute oral toxicity: LD50/oral/rat > 2000 mg/kg (OECD 401)

Acute dermal toxicity: LD50/dermal/rat > 2000 mg/kg. (OECD 402)

Acute inhalation toxicity: Testing by the inhalation route is inappropriate because exposure of humans via

inhalation is unlikely: the substance has no vapor pressure and there is practically no

exposure to inhalable aerosols.

Skin corrosion/irritation: Not irritating. (OECD 404)

Serious eye damage/eye irritation: Not irritating. (OECD 405)

Respiratory/skin sensitization: Sensitizing to skin. (OECD 406)

No respiratory sensitization has been observed in the workplace.

Mutagenicity: Negative in the Ames Test (OECD 471). Negative in the In Vitro Mammalian

Chromosome Aberration Test (OECD 473).

Carcinogenicity: Based on the absence of mutagenicity, it is unlikely that the substance is carcinogenic.

Reproductive toxicity: No data available.

STOT - Single exposure: No known effects.

STOT - Repeated exposure: NOAEL/oral/rat/28 days = 400 mg/kg/day (OECD 407)

Aspiration hazard: No known effects.

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SECTION 12: Ecological information

12.1. Toxicity

Information on the product as supplied:

Acute toxicity to fish: LC50/Danio rerio/96 hours > 100 mg/L (Estimated)

Acute toxicity to invertebrates: EC50/Daphnia magna/48 hours > 100 mg/L. (Estimated)

Acute toxicity to algae: IC50/Pseudokirchneriella subcapitata/72 hours = 4 - 10 mg/L. (Estimated)

Chronic toxicity to fish: No data available.

Chronic toxicity to invertebrates: No data available.

Toxicity to microorganisms: EC50/activated sludge/3 hours > 1000 mg/L (Estimated)

Effects on terrestrial organisms: No data available.

Sediment toxicity: No data available.

Relevant information on the hazardous components:

2-Propen-1-aminium, N,N,N-tri-2-propen-1-yl-, chloride

Acute toxicity to fish: LC50/Danio rerio/96 hours = 11 mg/L (OECD 203)

Acute toxicity to invertebrates: EC50/Daphnia magna/48 hours = 80 mg/L. (OECD 202)

Acute toxicity to algae: IC50/Pseudokirchneriella subcapitata/72 hours = 9.6 mg/L. (OECD 201)

Chronic toxicity to fish: NOEC/Danio rerio/9 days > 250 mg/L (OECD 212)

Chronic toxicity to invertebrates: No data available.

Toxicity to microorganisms: EC10/activated sludge/3 hours = 784 mg/L (OECD 209)

Effects on terrestrial organisms: NOEC/Eisenia fetida/14 days = 2780 mg/kg (OECD 207)

Sediment toxicity: No data available.

12.2. Persistence and degradability

Information on the product as supplied:

Degradation: Readily biodegradable.

Hydrolysis: No data available.

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Photolysis: No data available.

Relevant information on the hazardous components:

2-Propen-1-aminium, N,N,N-tri-2-propen-1-yl-, chloride

Degradation: Not readily biodegradable. 0% / 28 days (OECD 301 F)

Hydrolysis: Does not hydrolyze.

Half-life: > 1 y @ 50°C, pH 4 - 9 (OECD 111)

Photolysis: No data available.

12.3. Bioaccumulative potential

Information on the product as supplied:

The product is not expected to bioaccumulate.

Partition co-efficient (Log Pow): < 0

Bioconcentration factor (BCF): No data available.

Relevant information on the hazardous components:

2-Propen-1-aminium, N,N,N-tri-2-propen-1-yl-, chloride

Partition co-efficient (Log Pow): -1 @ 23°C (OECD 107)

Bioconcentration factor (BCF): No data available.

12.4. Mobility in soil

Information on the product as supplied:

No data available.

Relevant information on the hazardous components:

2-Propen-1-aminium, N,N,N-tri-2-propen-1-yl-, chloride

Koc: No data available.

12.5. Other adverse effects

None known.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products:

Whenever possible, send residues and unused product to the production process. In case of contamination, polymerize the product and then send the polymer to landfill or incineration. Dispose of in accordance with local regulations.

Contaminated packaging:

Completely drain containers and retain product residues. Rinse empty containers with water and use the rinse-water to prepare the working solution. Dispose of empty containers in accordance with regulations.

Recycling:

In accordance with local and national regulations.

SECTION 14: Transport information

Land transport (DOT)

Not classified.

Sea transport (IMDG)

Not classified.

Air transport (IATA)

Not classified.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Information on the product as supplied:

TSCA Chemical Substances Inventory:

All components of this product are either listed on the inventory or are exempt from listing.

US SARA Reporting Requirements:

SARA (Section 311/312) hazard class:

Not concerned.

SARA Title III Sections:

Section 302 (TPQ) - Reportable Quantity:

Not concerned.

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Section 304 - Reportable Quantity:

Not concerned.

Section 313 (De minimis concentration):

Not concerned.

Clean Water Act

Section 311 Hazardous Substances (40 CFR 117.3) - Reportable Quantity: Not concerned.

Clean Air Act

Section 112(r) Accidental release prevention requirements (40 CFR 68) - Reportable Quantity: Not concerned.

CERCLA

Hazardous Substances List (40 CFR 302.4) - Reportable Quantity: Not concerned.

RCRA status:

Not RCRA hazardous.

California Proposition 65 Information:

Not concerned.

SECTION 16: Other information

NFPA and HMIS Ratings:

NFPA:

Health: 1
Flammability: 0
Instability: 1



HMIS:

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Health: 1
Flammability: 0
Physical Hazard: 0
PPE Code: B

This data sheet contains changes from the previous version in section(s):

SECTION 1. Identification of the substance/mixture and of the company/undertaking, SECTION 2. Hazards identification, SECTION 3. Composition/information on ingredients, SECTION 4. First aid measures, SECTION 5. Fire-fighting measures, SECTION 6. Accidental release measures, SECTION 7. Handling and storage, SECTION 8. Exposure controls/personal protection, SECTION 9. Physical and chemical properties, SECTION 10. Stability and reactivity, SECTION 11. Toxicological information, SECTION 12. Ecological information, SECTION 13. Disposal considerations, SECTION 14. Transport information, SECTION 15. Regulatory information, SECTION 16. Other Information.

Key or legend to abbreviations and acronyms used in the safety data sheet:

Acronyms

STOT = Specific target organ toxicity

Abbreviations

Skin Sens. 1B = Skin sensitization Category Code 1B

Hazard statements

H317 - May cause an allergic skin reaction

Training advice:

Do not handle until all safety precautions have been read and understood.

This SDS was prepared in accordance with the following:

U.S. Code of Federal Regulations 29 CFR 1910.1200

Version: 18.01.a

LDMR072

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.

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