Safety Data Sheet

Taurus TS1-CI- Activator

Review date: 6.19.2025

Section 1: Identification of the substance/mixture and the company/company

1.1. Product Identifier: Taurus TS1-CI Activator

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

Use of the substance/mixture

Taurus polymer compound. Blends with Taurus TS1-CI base to provide protection in corrosive environments.

Inappropriate uses

No information available

1.3. Safety Data Sheet Provider Details

Company Name: Taurus Epoxy, Inc.
Calle: 4450 NW 126th Ave. Suite 107. Coral Springs, FL 33065 USA
Phone: +1 (561) 757-5620
E-mail: taurus@taurusepoxy.com
Internet: www.taurusepoxy.com

1.3. Emergency Phone: +1 (561) 757-5620

Section 2: Hazard Identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Hazard Categories:
Skin corrosion/irritation: Skin irritation. 2
Respiratory or skin sensitization: Sens.Piel. 1
Hazardous to the aquatic environment: 2
Hazard Statements:
It causes skin irritation.
It can cause an allergic skin reaction.
Toxic to aquatic life with long-lasting effects.

2.2. Label Elements

Regulation (EC) No 1272/2008

Signal Word: Danger

Pictograms:



Hazard Statements

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye injuries.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic organisms, with long-lasting effects.

Prevention:

P261 Avoid breathing dust/smoke/gas/mist/vapors/aerosols.
P264 Wash the skin thoroughly after handling.
P270 Do not eat, drink, or smoke when using this product.
P272 Contaminated work clothes must not leave the workplace.
P273 Avoid release into the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Answer:

P301 + P312 + P330 IF INGESTION: Call a doctor if you do not feel well. Rinse your mouth.
P301 + P330 + P331 IF INGESTION: Rinse the mouth. Do not induce vomiting.
P303 + P361 + P353 IN CASE OF SKIN (or hair) contact: Immediately remove all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310 IN CASE OF INHALATION: Take the person outdoors and stay comfortable breathing. Call a doctor immediately.
P305 + P351 + P338 + P310 IN CASE OF EYE CONTACT: Carefully rinse water for several minutes. Remove contact lenses, if they are present and easy to do. Continue rinsing. Call a doctor immediately.
P333 + P313 If skin irritation or rash occurs: Consult a doctor.
P363 Wash contaminated clothing before rewearing.

Storage:

P405 Shop closed.

Layout:

P501 Dispose of the contents/container in an approved facility in accordance with local, regional, national, and international regulations.

2.3. Other hazards

This product is classified as hazardous as defined in the OSHA GHS Hazard Communication. Standard 29CFR1910. 1200.Safety and health hazards are detailed separately for Activator and Base ase. Final cured material is considered non-hazardous. When machining, refer to the precautions in the Safety Data Sheets for Activator and Base.

Section 3: Composition/Ingredient Information

3.1 Substances

N/A

3.2 Mixtures

Component	CAS Number	Composition
Benzyl alcohol	100-51-6	2-50%
3-aminomethyl-3,5,5- trimethylcyclohexylamine	2855-13-2	2-10%
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3- epoxypropane, reaction products with mphenylenebis(methylamine)	110839-13-9	10-40%
m-phenylenebis(methylamine)	1477-55-0	2-10%
Salicylic acid	69-72-7	2-10%
Silicones and Siloxanes	677762-90-7	2-10%

3-Glycidoxypropyltrimethoxysilane	2530-83-8	2-10%

are typical and do not represent a specification. The remaining components are proprietary, non-hazardous, and/or present in quantities below reportable limits. Exact percentage values for components are proprietary in accordance with 29 CFR 1910.1200(i).

Section 4: First Aid Measures

4.1. Description of first aid measures

General Information
Change contaminated and saturated clothing. In case of accident or discomfort, consult a doctor immediately (show instructions for use or safety data sheet if possible).
After inhalation
In case of inhalation, move the person to fresh air and keep at rest in a comfortable position to breathe; if breathing is irregular, provide artificial respiration; if there are breathing difficulties, administer oxygen; obtain medical attention.
After skin contact
After contact with skin, wash immediately with plenty of soap and water. Seek medical advice immediately.
Do not wash with: Solvents/Thinner
After eye contact
Bathe the eye with running water for at least 15 minutes, lifting the upper and lower eyelids, then consult an ophthalmologist immediately.
After ingestion
If accidentally swallowed, rinse the mouth with plenty of water (only if the person is conscious) and get immediate medical attention. DO NOT induce vomiting

4.2. The most important symptoms and effects, both acute and

Harmful if swallowed and inhaled; can cause severe skin burns and eye damage; Sensitizer.

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

First aid, decontamination, treatment of symptoms.
Eyewash stations and emergency showers should be available.

Section 5: Fire suppression measures

5.1. Means of extinguishing

Suitable extinguishing means
Dry extinguishing powder. Carbon dioxide (CO2). Alcohol-resistant foam.
Inadequate extinguishing means
Full waterjet

5.2. Special hazards arising from the substance or mixture

Taurus Epoxy, Inc.
4450 NW 126th Ave. Suite 107. Coral Springs, FL 33065 USA
Phone: (561) 757 – 5620
E-mail: taurus@taurusepoxy.com
Website: www.taurusepoxy.com

Exposure to decomposition products can be harmful to health; combustion products can include, but are not limited to carbon monoxide, carbon dioxide, nitrogen oxides; the formation of hydrocarbon fragments is possible in the initial stages of fire (especially between 400°C and 700°C); smoke can also contain particles of the original material.

5.3. Advice for firefighters

Wear protective firefighting clothing and self-contained positive pressure breathing apparatus to protect against potential harmful and/or irritating fumes. Move containers from the fire zone if you do so safely. Levee fire control water for later disposal; prevent runoff from entering drains. Cool vessels exposed to fire with running water. Do not use high-volume water jets on the fire, as this can spread the fire area. Coordinate fire suppression measures for the fire environment.
Additional information: Collect contaminated firefighting water separately. Do not allow drains or surface water to enter.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Isolate area; ensure adequate ventilation; use appropriate personal protective equipment; avoid breathing mist, fumes, aerosol; avoid contact with skin, eyes, and clothing; prevent unnecessary and unprotected personnel from entering the area involved. Local authorities should be informed if significant spills cannot be contained.

6.2. Environmental precautions

Do not allow surface water or drains to enter. Cover drains. Adverse Effects on the Environment

6.3. Containment and cleaning methods and equipment

Soak with sand, soil, diatomaceous earth, or other suitable inert absorbent material (e.g., sand, diatomaceous earth, acidic or universal bonding agents); collect in appropriate waste disposal containers. Reuse uncontaminated material when possible. Wash the site of spills with large amounts of water. Dispose in accordance with applicable local and federal environmental control laws and regulations

6.4. Reference to other sections

See the protective measures provided for in points 7 and 8. Elimination: see section 13

Section 7: Handling and Storage

7.1. Precautions for safe handling

Ensure adequate ventilation. Avoid inhalation of steam, ingestion, and contact with skin, eyes, and clothing. Keep containers closed when not in use. Precautions also apply to empty containers. Do not eat, drink, or smoke in the work area. Wash thoroughly after handling. Personal protective equipment should be worn during maintenance or repair of mixers, reactors, or other equipment containing the material.
Fire and explosion protection tips: Keep away from heat sources (e.g., hot surfaces), sparks, and open flames.

7.2. Secure storage conditions, including any incompatibilities

Warehouse and vessel requirements

Keep the container tightly closed in a cool, well-ventilated place. Keep/Store only in the original container. Store away from food and all incompatible materials. Keep the container tightly closed when not in use.

Learn more about storage conditions

Keep away from: Moisture and heat incompatibilities:
Do not store together with strong oxidizing agents.

7.3. Specific end-use(s)

No information is available.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Occupational Exposure Limits: None Assigned
The recommended WEEL (Workplace Environmental Exposure Level) AIHA for benzyl alcohol is 10 ppm (8h-TWA) (45 mg/m3).

8.1.2 Recommended Follow-Up Procedures
If this product contains ingredients with exposure limits, a personal, environmental, or biological atmosphere may be necessary to determine the effectiveness of ventilation or other control measures and/or the need to use respiratory protective equipment. Reference may be made to the European standard EN 689 for methods for the assessment of inhalation exposure to chemical agents for the determination of hazardous substances.

8.2. Exposure controls
Proper engineering controls
Provide adequate ventilation as well as local exhaustion in critical locations
Protection and hygiene measures
Work in well-ventilated areas or use proper respiratory protection. Only wear fit, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothing. Wash your hands and face before breaks and after work and take a shower if necessary.
Eye/Face Protection
Proper eye protection: Glasses with side protection (glasses). Refer to OSHA 29CFR1910.133 and European standard EN166.
Hand protection
Nitrile or butyl gloves should be worn.
Skin protection
Wear waterproof clothing as needed to protect against contact with the product. The need for boots, apron, face shield, etc. will depend on the hazards presented in the work process. Refer to standards CFR1910.132 and CFR1910.136 for OSHA-approved standards for protective clothing and footwear.
Respiratory protection
Personal respiratory protection is usually not required. If technical escape or ventilation measures are not possible or insufficient, respiratory protection should be used. Combined filtering device (EN 14387) A-P3. Self-contained ventilator (breathing apparatus) (DIN EN 133).
Other Protective Equipment: The type and degree of appropriate personal protective equipment will depend on the specific work operation. Eyewash stations and emergency showers should be available. Inspect and replace personal protective equipment on a regular basis: Use professional care in its selection, use, and care.

8.3 Environmental Exposure Controls
Take all precautions to avoid contamination of soil and waterways.

Section 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

9.1.1 General Information:
Appearance: Viscous liquid
Color: Amber
Odor Type: Mild amine-like
Odor Threshold: No data available

9.1.2 Important health, safety and environmental information:
Boiling Point: >205°C (>401°F)
Melting Point: No data available

Flash Point: >117°C (>243°F) (cc)
Self-ignition temperature: No data available
Decomposition Temperature: No data available
Flammability Limits (Lower/Upper): No data available

Vapor Pressure: No data available
Vapour density (Air = 1): No data available
Evaporation rate (BuAc-1): No data available
Specific Gravity: 1.12
Water Solubility: Partially soluble
pH: No data available
Viscosity: 2500-7000 cp. at 25°C
Explosive properties: Non-explosive
Oxidizing properties: Not determined
Molecular Formula: (Mixing)
VOC Content: <1%

9.2. Other Information No Information Available

Section 10: Stability and Reactivity

10.1. Reactivity
There are no known hazardous reactions under normal use and storage.
10.2. Chemical stability
Does not break down when used for intended uses. No known hazardous decomposition products
10.3. Possibility of dangerous reactions
Mixtures with strongly acidic materials. can produce an exothermic reaction.
10.4. Conditions to avoid
Keep away from heat sources (e.g., hot surfaces), sparks, and open flames.
10.5. Incompatible Materials
Acids, oxidizing agents, epoxies, isocyanates.
10.6. Hazardous decomposition products
Does not break down when used for intended uses
Thermal decomposition will generate carbon monoxide, carbon dioxide, and nitrogen oxides.

Section 11: Toxicological Information

11.1. Information on toxicological effects
Acute oral toxicity: LD50 (rat): 690 mg/kg (ATE)
Acute dermal toxicity: LD50 (rabbit): 2188 mg/kg (ATE)
Acute inhalation toxicity: LD50 (rabbit): >900 mg/m3 (salicylic acid)
Skin Corrosion/Irritation: Draize Test: Rabbit/Skin: Irritant
Serious Eye Damage/Irritation: Draize Test: Rabbit/Eye: Irritant
Skin sensitization (guinea pig): Sensitizer
Germ cell mutagenicity: Not classified as mutagenic
Carcinogenicity: Not classified as carcinogenic. Not listed in OSHA/NTP/IARC.
Reproductive toxicity: Not classified as toxic to reproduction
Target Organ Specific Toxicity - Single Exposure (STOT-se): Product not classified based on available data.
Target Organ Specific Toxicity - Repeated Exposure (STOT-re): Can cause damage to the liver and skeletal muscles through prolonged or repeated oral exposure.
NOAEL: (oral, rat): 15 mg/kg body weight per day.
Aspiration hazard: Aspiration that occurs during vomiting can cause lung damage.
Possible health effects:

Skin contact: May cause irritation, itching, redness, inflammation; may be absorbed through the skin gain CNS effects; may cause an allergic reaction.
Eye contact: Causes serious eye damage; fumes are irritating and can cause eye damage; contact can cause severe burns and permanent damage to the eyes, including blindness.

Ingestion: Harmful if swallowed; can cause serious and permanent damage to the mouth, throat and stomach; matting leads to perforation of the intestine.
Inhalation: Harmful if inhaled; may cause severe irritation of the respiratory tract; may cause CNS symptoms including headache, nausea, brain fog, blurred vision, fatigue, dizziness, and loss of coordination; prolonged overexposure may cause respiratory failure.
Chronic health effects:
Skin sensitizer: Once sensitized, a severe allergic reaction can occur when subsequently exposed to extremely low levels. After repeated oral exposure in high doses, the substance causes adverse effects on the liver, kidneys.
Additional data:
RTECS No. GV5020833 (PACM)
RTECS No. DN3150000 (Benzyl Alcohol)
RTECS No. VO0525000 (Salicylic Acid)

Section 12: Ecological Information

12.1. Toxicity
12.1.1 Acute/prolonged toxicity to fish
LC50 (freshwater fish) (96-hr): 10 mg/l (ATE)
12.1.2 Acute/prolonged toxicity to aquatic invertebrates
EC50(Daphnia magna) (48-HR): 10 mg/l (ATE)
12.1.3 Acute/prolonged toxicity to aquatic plants
EC50(Algas)(72-H): 16 mg/l (ATE)
12.1.4 Toxicity to bacteria, soil-dwelling organisms and terrestrial plants
No data available
12.1.5 Chronic toxicity to aquatic organisms
Long-lasting adverse effects on aquatic organisms.
12.1.6 General effect
Harmful to aquatic life with long-lasting effects.
12.2 Persistence and degradability
It is not easily biodegradable.
12.3 Bioaccumulative potential
No data available
12.4 Mobility on the ground
No data available; do not allow product to enter soil/subsoil.
12.5 Results of the pbt and vPvB assessment (EC reg. 453/2010)
Product not classified as persistent, bioaccumulative and toxic
Product not classified as very persistent or very bioaccumulative
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.
12.6 German WGK Classification
WGK No. 1 (Self-Assessment)
12.7 Other adverse effects
Neutralization may be necessary before discharge to wastewater treatment plants.

Section 13: Disposal Considerations

13.1. Waste treatment methods
Disposal advice

Dispose of waste in accordance with applicable law. Do not discharge into land, sewers, or waterways. Incinate or otherwise dispose of in compliance with all applicable federal, state, and local environmental control laws and regulations. Characterization of waste in accordance with RCRA guidelines and compliance with applicable laws are the sole responsibility of the waste generator.
Contaminated packaging
Uncontaminated packaging can be recycled. Dispose of waste in accordance with applicable legislation.

Section 14: Transportation Information

14.1 Description of the shipment

Non-hazardous material

Unregulated
DOT Correct Shipment Description: Unregulated
IMDG: Unregulated
IATA: No regulated

Section 15: Regulatory Information

15.1. Safety, health and environmental standards/legislation specific to the substance or mixture

Sara Title III Section 311/312 (40CFR370): Acute toxicity, skin corrosion or irritation, serious eye injury, or eye irritation.
SARA Title III Section 313 (40CFR372): No Reportable Components
CERCLA Status (40CFR302): No reportable component (Release of a hazardous substance into the environment in an amount that is equal to or greater than its reportable quantity (RQ) requires notification to the National Response Center at 800-424-8802.)
RCRA Status (40CFR261): Not Listed
OSHA/NTP/IARC Carcinogen Status: Not Listed
TSCA Inventory Status: Reported/Included
Canadian DSL Status: Reported/Included
Canadian WHMIS Status: D2B, E
Chemicals known to the state of California to cause cancer or reproductive toxicity: None are known to be in the product at levels that require a warning.
Annex REACH XIV (SVHC)
No components listed
REACH Annex XVII (Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles)
No components listed
REACH Status (EC 1907/2006): This material has been registered, pre-registered, or is otherwise exempt from registration under the Registration, Evaluation, and Authorization of Chemicals**.**

15.2. Chemical safety assessment

Not available

Section 16: Other Information

HMIS Ratings:
Health: 2
Flammability: 1
Reactivity: 0
(The selection of personal protective equipment is best assigned by the user after a hazard is carried out evaluation of the product, as it must be used in the specific work process.)

National chemical inventories - All components of this product are listed in the following chemical inventories:
TSCA (United States)

DSL (Canada)
EINECS (Europe)
ENCS (Japan)
ECL (Korea)
AICS (Australia)
PICCS (Philippines)

Abbreviations and acronyms:

ADR: European Agreement on the Carriage of Dangerous Goods by Road
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
ACGIH American Conference of Governmental Industrial Hygienists
AICS Australian Chemicals Inventory
American Industrial Hygiene Association
ATE Acute Toxicity Estimation
RID: International Council for the Transport of Dangerous Goods by Rail
(Regulations concerning the International Carriage of Dangerous Goods by Rail)
IMDG: International Maritime Dangerous Goods Code
BfR Bundesinstitut f'r Risikobewertung recommendations for food contact materials
BCF Bioconcentration Factor
CAS: Abstract Chemical Service (division of the American Chemical Society)
Comprehensive Law on Environmental Response, Compensation and Environmental Responsibility of CERCLA
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DOT Department of Transportation
DNEL: Level with no derived effect
DSL Household Substance List
EINECS European Inventory of Existing Chemicals
List of Existing Chemicals from ECL (Korea)
EC50: Effective concentration, 50 percent
ENCS Inventory of Existing and New Chemicals (Japan)
EN 689 Workplace Atmospheres – Guidance for Inhalation Exposure Assessment
chemical agents for comparison with limit values and measurement strategy
ERG Emergency Response Guide
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
HMIS Hazardous Materials Information System
IARC International Agency for Research on Cancer
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions of the "International Civil Aviation Organization" (ICAO)
IDLH Immediately Dangerous to Life and Health
IMDG International Maritime Dangerous Goods
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
MAK Maximum Workplace Concentration
NOAEL There is no observable level of adverse effect
NTP National Toxicology Program
OEL Occupational Exposure Limit
OSHA Occupational Safety and Health Administration

Persistent, Bioaccumulative and Toxic PBT
PNEC: Concentration with no predicted effect
vPvB: very persistent and very bioaccumulative
PEL Permissible Exposure Limit
PICCS Philippine Inventory of Commercial Chemicals
PNEC Forecasts Concentration No Effect

REACH Registration, Evaluation and Authorization of Chemicals
RID International Transport of Dangerous Goods by Rail
SARA Superfund Amendments and Reauthorization Act
STEL Short-Term Exposure Limit
SVHC Substance of Very High Concern
TLV threshold limit value
TSCA Toxic Substances Control Act
TWA Time Weighted Average
VOCs Volatile Organic Compound
WEEL Workplace Environmental Exposure LEVEL
WGK Water Hazard Class (Clase de peligro de agua)
WHMIS Workplace Hazardous Materials Identification System

Disclaimer

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Safety Data Sheet

Taurus TS1-CI –Base

Review date: 6.19.2025

Section 1: Identification of the substance/mixture and the company/company

1.1. Product Identifier: Taurus TS1-CI base

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

Use of the substance/mixture

Taurus polymer compound. Blends with Taurus TS1-CI activator to provide protection in corrosive environments.

Inappropriate uses

No information available

1.3. Safety Data Sheet Provider Details

Company Name: Taurus Epoxy, Inc.
Calle: 4450 NW 126th Ave. Suite 107. Coral Springs, FL 33065 USA
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1.3. Emergency Phone: +1 (561) 757-5620

Section 2: Hazard Identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Hazard Categories:
Skin corrosion/irritation: Skin irritation. 2
Respiratory or skin sensitization: Sens.Piel 1
Hazardous to the aquatic environment: Aquatic Chronic 2
Hazard Statements:
It causes skin irritation.
It can cause an allergic skin reaction.
Toxic to aquatic life with long-lasting effects.

2.2. Label Elements

Regulation (EC) No 1272/2008

Signal Word: Warning

Pictograms:



Hazard Statements

H315 Causes skin irritation.
H317 may cause an allergic skin reaction.
H319 Causes severe eye irritation.
H411 Toxic to aquatic life with long-lasting effects.
Precautionary statements
P261 Avoid breathing mist/vapors/spray.
P264 Wash hands and skin contact areas thoroughly after handling.
P272 Contaminated work clothes should not be allowed to leave the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P302 + P352 IN CASE OF SKIN: Wash with plenty of soap and water.
P305 + P351 + P338 IN CASE OF EYES: Rinse carefully with water for several minutes.
Remove contact lenses if they are present and easy to make - continue rinsing.
P333 + P313 If skin irritation or rash occurs: Consult a doctor.
P337 + P313 If eye irritation persists: Consult a doctor.
P362 Remove contaminated clothing and wash it before reusing it.
P391 Collect spills.
P501 Dispose of the contents/container through a waste management company licensed by the local government.

2.3. Other hazards
This product is classified as hazardous as defined in GHS OSHA Hazard Communication Standard 29CFR1910. 1200.Safety and health hazards are detailed separately for Activator and Base ase. The final cured material is considered non-hazardous. When machining, refer to the precautions in the Safety Data Sheets for Activator and Base. and B

Section 3: Composition/Ingredient Information

3.1 Substances
N/A
3.2 Mixtures

Component	CAS Number	Composition
Bisphenol A Resin	1675-54-3	30-80%
Silicones and siloxanes	677762-90-7	2-10%
Iron Oxide	1317-61-9	2-10%
3-Glycidoxypropyltrimethoxysilane	2530-83-8	2-10%

The amounts specified are typical and do not represent a specification. The remaining components are proprietary, non-hazardous, and/or present in quantities below reportable limits. The exact percentage values for the components are proprietary in accordance with 29 CFR 1910.1200(i).
Occupational exposure limits, if available, are listed in Section 8.

Section 4: First Aid Measures
4.1. Description of first aid measures
General Information
Change contaminated and saturated clothing. In case of accident or discomfort, consult a doctor immediately (show instructions for use or safety data sheet if possible).
After inhalation

In case of inhalation, move the person to fresh air and keep at rest in a comfortable position to breathe; if breathing is irregular, provide artificial respiration; if there are breathing difficulties, administer oxygen; obtain medical attention.

After skin contact

After contact with skin, wash immediately with plenty of soap and water. Seek medical advice immediately.
Do not wash with: Solvents/Thinner

After eye contact

Bathe the eye with running water for at least 15 minutes, lifting the upper and lower eyelids, then consult an ophthalmologist immediately.

After ingestion

If accidentally swallowed, rinse the mouth with plenty of water (only if the person is conscious) and get immediate medical attention. DO NOT induce vomiting

4.2. The most important symptoms and effects, both acute and

Harmful if swallowed and inhaled; can cause severe skin burns and eye damage; Sensitizer.

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

First aid, decontamination, treatment of symptoms.
Eyewash stations and emergency showers should be available.

Section 5: Fire suppression measures

5.1. Means of extinguishing

Suitable extinguishing means

Dry extinguishing powder. Carbon dioxide (CO2). Alcohol-resistant foam.

Inadequate extinguishing means

Full waterjet

5.2. Special hazards arising from the substance or mixture

Exposure to decomposition products can be harmful to health; combustion products can include, but are not limited to: carbon monoxide, carbon dioxide, nitrogen oxides; the formation of hydrocarbon fragments is possible in the initial stages of fire (especially between 400°C and 700°C); smoke can also contain particles of the original material.

5.3. Advice for firefighters

Wear protective firefighting clothing and self-contained positive pressure breathing apparatus to protect against potential harmful and/or irritating fumes. Move containers from the fire zone if you do so safely. Levee fire control water for later disposal; prevent runoff from entering drains. Cool vessels exposed to fire with running water. Do not use high-volume water jets on the fire, as this can spread the fire area. Coordinate fire suppression measures for the fire environment.
Additional information: Collect contaminated firefighting water separately. Do not allow drains or surface water to enter.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Isolate area; ensure adequate ventilation; use appropriate personal protective equipment; avoid breathing mist, fumes, aerosol; avoid contact with skin, eyes, and clothing; prevent unnecessary and unprotected personnel from entering the area involved. Local authorities should be informed if significant spills cannot be contained.

6.2. Environmental precautions

Do not allow surface water or drains to enter. Cover drains. Adverse Effects on the Environment

6.3. Containment and cleaning methods and equipment

Soak with sand, soil, diatomaceous earth, or other suitable inert absorbent material (e.g., sand, diatomaceous earth, acidic or universal bonding agents); collect in appropriate waste disposal containers. Reuse uncontaminated material when possible. Wash the site of spills with large amounts of water. Dispose in accordance with applicable local and federal environmental control laws and regulations

6.4. Reference to other sections

See the protective measures provided for in points 7 and 8. Elimination: see section 13

Section 7: Handling and Storage

7.1. Precautions for safe handling

Ensure adequate ventilation. Avoid inhalation of steam, ingestion, and contact with skin, eyes, and clothing. Keep containers closed when not in use. Precautions also apply to empty containers. Do not eat, drink, or smoke in the work area. Wash thoroughly after handling. Personal protective equipment should be worn during maintenance or repair of mixers, reactors, or other equipment containing the material.

Fire and explosion protection tips: Keep away from heat sources (e.g., hot surfaces), sparks, and open flames.

7.2. Secure storage conditions, including any incompatibilities

Warehouse and vessel requirements

Keep the container tightly closed in a cool, well-ventilated place. Keep/Store only in the original container. Store away from food and all incompatible materials. Keep the container tightly closed when not in use.

Learn more about storage conditions

Keep away from: Moisture and heat incompatibilities: **Do not store together with strong oxidizing agents.**

7.3. Specific end-use(s)

No information is available.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Occupational Exposure Limits: None Assigned

The recommended WEEL (Workplace Environmental Exposure Level) AIHA for benzyl alcohol is 10 ppm (8h-TWA) (45 mg/m3).

8.1.2 Recommended Follow-Up Procedures

If this product contains ingredients with exposure limits, a personal, environmental, or biological atmosphere may be necessary to determine the effectiveness of ventilation or other control measures and/or the need to use respiratory protective equipment.

Reference can be made to the European standard EN 689 for methods for the assessment of inhalation exposure to chemical agents for the determination of hazardous substances.

8.2. Exposure controls

Proper engineering controls

Provide adequate ventilation as well as local exhaustion in critical locations

Protection and hygiene measures

Work in well-ventilated areas or use proper respiratory protection. Only wear fit, comfortable and clean protective clothing. Avoid contact with skin, eyes and clothing. Wash your hands and face before breaks and after work and take a shower if necessary.

Eye/Face Protection

Proper eye protection: Glasses with side protection (glasses). Refer to OSHA 29CFR1910.133 and European standard EN166.

Hand protection

Nitrile or butyl gloves should be worn.

Skin protection

Wear waterproof clothing as needed to protect against contact with the product. The need for boots, apron, face shield, etc. will depend on the hazards presented in the work process. Refer to standards CFR1910.132 and CFR1910.136 for OSHA-approved standards for protective clothing and footwear.

Respiratory protection

Personal respiratory protection is usually not required. If technical escape or ventilation measures are not possible or insufficient, respiratory protection should be used. Combined filtering device (EN 14387) A-P3. Self-contained ventilator (breathing apparatus) (DIN EN 133).

Other Protective Equipment: The type and degree of appropriate personal protective equipment will depend on the specific work operation. Eyewash stations and emergency showers should be available. Inspect and replace personal protective equipment on a regular basis: Use professional care in its selection, use, and care.

8.3 Environmental Exposure Controls

Take all precautions to avoid contamination of soil and waterways.

Section 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

9.1.1 General Information:

Appearance: Viscous liquid
Color: Gray
Odor Type: Mild amine-like
Odor Threshold: No data available

9.1.2 Important health, safety and environmental information:

Boiling Point: >205°C (>401°F)
Melting Point: No data available
Flash Point: >200°C (>392°F) (cc)
Auto inflation temperature: No data available
Decomposition Temperature: No data available
Flammability Limits (Lower/Upper): No data available
Vapor Pressure: No data available
Vapor Density (Air = 1): No data available
Evaporation rate (BuAc-1): No data available
Specific Gravity: 1.28
Water Solubility: Partially soluble
pH: No data available
Viscosity: 2000-6000 cp. at 25oC
Explosive properties: Non-explosive
Oxidizing properties: Not determined
Molecular Formula: (Mixing)
VOC Content: <1%

9.2. Other Information No Information Available

Section 10: Stability and Reactivity

10.1. Reactivity
There are no known hazardous reactions under normal use and storage.
10.2. Chemical stability
Does not break down when used for intended uses. No known hazardous decomposition products
10.3. Possibility of dangerous reactions
Mixtures with strongly acidic materials, can produce an exothermic reaction.
10.4. Conditions to avoid
Keep away from heat sources (e.g., hot surfaces), sparks, and open flames.
10.5. Incompatible Materials
Acids, oxidizing agents, epoxies, isocyanates.
10.6. Hazardous decomposition products
Does not break down when used for intended uses
Thermal decomposition will generate carbon monoxide, carbon dioxide, and nitrogen oxides.

Section 11: Toxicological Information

11.1. Information on toxicological effects
Acute oral toxicity: LD50 (rat): 690 mg/kg (ATE)
Acute dermal toxicity: LD50 (rabbit): 2188 mg/kg (ATE)
Acute inhalation toxicity: LD50 (rabbit): >900 mg/m3 (salicylic acid)
Skin Corrosion/Irritation: Draize Test: Rabbit/Skin: Irritant
Serious Eye Damage/Irritation: Draize Test: Rabbit/Eye: Irritant
Skin sensitization (guinea pig): Sensitizer
Germ cell mutagenicity: Not classified as mutagenic
Carcinogenicity: Not classified as carcinogenic. Not listed in OSHA/NTP/IARC.
Reproductive toxicity: Not classified as toxic to reproduction
Target Organ Specific Toxicity - Single Exposure (STOT-se): Product not classified based on available data.
Target Organ Specific Toxicity - Repeated Exposure (STOT-re): Can cause damage to the liver and skeletal muscles through prolonged or repeated oral exposure.
NOAEL: (oral, rat): 15 mg/kg body weight per day.
Aspiration hazard: Aspiration that occurs during vomiting can cause lung damage.
Possible health effects:
Skin contact: May cause irritation, itching, redness, inflammation; may be absorbed through the skin gain CNS effects; may cause an allergic reaction.
Eye contact: Causes serious eye damage; fumes are irritating and can cause eye damage; contact can cause severe burns and permanent damage to the eyes, including blindness.
Ingestion: Harmful if swallowed; can cause serious and permanent damage to the mouth, throat and stomach; matting leads to perforation of the intestine.
Inhalation: Harmful if inhaled; may cause severe irritation of the respiratory tract; may cause CNS symptoms including headache, nausea, brain fog, blurred vision, fatigue, dizziness, and loss of coordination; prolonged overexposure may cause respiratory failure.
Chronic health effects:
Skin sensitizer: Once sensitized, a severe allergic reaction can occur when subsequently exposed to extremely low levels. After repeated oral exposure in high doses, the substance causes adverse effects on the liver, kidneys.
Additional data:
RTECS No. GV5020833 (PACM)
RTECS No. DN3150000 (Benzyl Alcohol)
RTECS No. VO0525000 (Salicylic Acid)

Section 12: Ecological Information

12.1. Toxicity

12.1.1 Acute/prolonged toxicity to fish
LC50 (freshwater fish) (96-hr): 10 mg/l (ATE)
12.1.2 Acute/prolonged toxicity to aquatic invertebrates
EC50(Daphnia magna) (48-HR): 10 mg/l (ATE)
12.1.3 Acute/prolonged toxicity to aquatic plants
EC50(Algas)(72-H): 16 mg/l (ATE)
12.1.4 Toxicity to bacteria, soil-dwelling organisms and terrestrial plants
No data available
12.1.5 Chronic toxicity to aquatic organisms
Long-lasting adverse effects on aquatic organisms.
12.1.6 General effect
Harmful to aquatic life with long-lasting effects.
12.2 Persistence and degradability
It is not easily biodegradable.
12.3 Bioaccumulative potential
No data available
12.4 Mobility on the ground
No data available; do not allow product to enter soil/subsoil.
12.5 Results of the pbt and vPvB assessment (EC reg. 453/2010)
Product not classified as persistent, bioaccumulative and toxic
Product not classified as very persistent or very bioaccumulative
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, Annex XIII.
12.6 German WGK Classification
WGK No. 1 (Self-Assessment)
12.7 Other adverse effects
Neutralization may be necessary before discharge to wastewater treatment plants.

Section 13: Disposal Considerations

13.1. Waste treatment methods
Disposal advice
Dispose of waste in accordance with applicable law. Do not discharge into land, sewers, or waterways. Incinate or otherwise dispose of in compliance with all applicable federal, state, and local environmental control laws and regulations. Characterization of waste in accordance with RCRA guidelines and compliance with applicable laws are the sole responsibility of the waste generator.
Contaminated packaging
Uncontaminated packaging can be recycled. Dispose of waste in accordance with applicable legislation.

Section 14: Transportation Information

14.1 Description of the shipment
Non-hazardous material
Unregulated
DOT Correct Shipment Description: Unregulated
IMDG: Unregulated
IATA: No regulated

Section 15: Regulatory Information

15.1. Safety, health and environmental standards/legislation specific to the substance or mixture
Sara Title III Section 311/312 (40CFR370): Acute toxicity, skin corrosion or irritation, serious eye injury, or eye irritation.
SARA Title III Section 313 (40CFR372): No Reportable Components

CERCLA Status (40CFR302): No reportable component (Release of a hazardous substance into the environment in an amount that is equal to or greater than its reportable quantity (RQ) requires notification to the National Response Center at 800-424-8802.)
RCRA Status (40CFR261): Not Listed
OSHA/NTP/IARC Carcinogen Status: Not Listed
TSCA Inventory Status: Reported/Included
Canadian DSL Status: Reported/Included
Canadian WHMIS Status: D2B, E
Chemicals known to the state of California to cause cancer or reproductive toxicity: None are known to be in the product at levels that require a warning.
Annex REACH XIV (SVHC)
No components listed
REACH Annex XVII (Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles)
No components listed
REACH Status (EC 1907/2006): This material has been registered, pre-registered, or is otherwise exempt from registration under the Registration, Evaluation, and Authorization of Chemicals**.**

15.2. Chemical safety assessment
Not available

Section 16: Other Information

HMIS Ratings:
Health: 2
Flammability: 1
Reactivity: 0
(The selection of personal protective equipment is best assigned by the user after a hazard is carried out evaluation of the product, as it must be used in the specific work process.)
National chemical inventories - All components of this product are listed in the following chemical inventories:
TSCA (United States)
DSL (Canada)
EINECS (Europe)
ENCS (Japan)
ECL (Korea)
AICS (Australia)
PICCS (Philippines)
IECSC (China)
NZloC (New Zealand)

Abbreviations and acronyms:
ADR: European Agreement on the Carriage of Dangerous Goods by Road
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
ACGIH American Conference of Governmental Industrial Hygienists
AICS Australian Chemicals Inventory
American Industrial Hygiene Association
ATE Acute Toxicity Estimation
RID: International Council for the Transport of Dangerous Goods by Rail
(Regulations concerning the International Carriage of Dangerous Goods by Rail)

IMDG: International Maritime Dangerous Goods Code
BfR Bundesinstitut f'r Risikobewertung recommendations for food contact materials

BCF Bioconcentration Factor
CAS: Abstract Chemical Service (division of the American Chemical Society)
Comprehensive Law on Environmental Response, Compensation and Environmental Responsibility of CERCLA
CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DOT Department of Transportation
DNEL: Level with no derived effect
DSL Household Substance List
EINECS European Inventory of Existing Chemicals
List of Existing Chemicals from ECL (Korea)
EC50: Effective concentration, 50 percent
ENCS Inventory of Existing and New Chemicals (Japan)
EN 689 Workplace Atmospheres – Guidance for Inhalation Exposure Assessment
chemical agents for comparison with limit values and measurement strategy
ERG Emergency Response Guide
GHS: Globally Harmonized System of Classification and Labeling of Chemicals
HMIS Hazardous Materials Information System
IARC International Agency for Research on Cancer
IATA: International Air Transport Association
IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association (IATA)
ICAO: International Civil Aviation Organization
ICAO-TI: Technical Instructions of the "International Civil Aviation Organization" (ICAO)
IDLH Immediately Dangerous to Life and Health
IMDG International Maritime Dangerous Goods
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
MAK Maximum Workplace Concentration
NOAEL There is no observable level of adverse effect
NTP National Toxicology Program
OEL Occupational Exposure Limit
OSHA Occupational Safety and Health Administration
Persistent, Bioaccumulative and Toxic PBT
PNEC: Concentration with no predicted effect
vPvB: very persistent and very bioaccumulative
PEL Permissible Exposure Limit
PICCS Philippine Inventory of Commercial Chemicals
PNEC Forecasts Concentration No Effect
REACH Registration, Evaluation and Authorization of Chemicals
RID International Transport of Dangerous Goods by Rail
SARA Superfund Amendments and Reauthorization Act
STEL Short-Term Exposure Limit
SVHC Substance of Very High Concern
TLV threshold limit value
TSCA Toxic Substances Control Act
TWA Time Weighted Average
VOCs Volatile Organic Compound
WEEL Workplace Environmental Exposure LEVEL
WGK Water Hazard Class (Clase de peligro de agua)
WHMIS Workplace Hazardous Materials Identification System

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