

STICK FAST STABILIZING RESIN CATALYST

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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Version: 1.0

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

1.1. Product identifier

Product name : Stick Fast 350 Stabilizing Resin Catalyst
Other means of identification : Catalyst, Activator

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

Use of the substance/mixture : Catalyst Accelerator for use with Stick Fast 350 Stabilizing Resin

1.3. Details of the supplier of the safety data sheet

TMI Products
248 Claridge Curve
Peachtree City, GA 30269 - United States
770-631-7897; F 770-755-5200
www.TMIProducts.net

1.4. Emergency telephone number

Emergency number : 1-888-255-3924; CHEMTEL International Emergency number: 813-248-0585

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

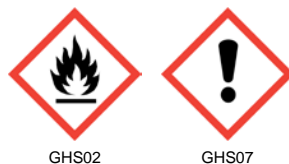
GHS-US classification

Self-react. C H242
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Inhalation:dust,mist) H332

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H242 - Heating may cause a fire
H302+H332 - Harmful if swallowed or if inhaled

Precautionary statements (GHS-US) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P220 - Keep/Store away from clothing/combustible materials
P234 - Keep only in original container
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray
P264 - Wash skin thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P271 - Use only in a well-ventilated area
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P308+P313 - IF exposed or concerned: Get medical advice/attention
P501 - Dispose of contents/container to local, regional, national, and international regulations

2.3. Other hazards

Dust may form explosive mixture in air. Heating can release hazardous gases.
PBT: This product is not identified as a PBT substance.

SECTION 3: Composition/information on ingredients

3.1. Substance

Full text of H-phrases: see section 16

3.2. Mixture

Hazardous ingredients:

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| Name | Product identifier | % | GHS-US classification |
|------------------------------------|--------------------|----------|--|
| 2,2'-azobis(2-methylpropionitrile) | (CAS No) 78-67-1 | 30 – 40% | Self-react. C, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Aquatic Chronic 3, H412 |

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible). Never give anything by mouth to an unconscious person.
- First-aid measures after inhalation : Overexposure may be irritating to the respiratory system. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Wash thoroughly with soap and water. Seek medical attention if irritations develop.
- First-aid measures after eye contact : Immediately flush with warm water for at least 15 minutes, get prompt medical attention.
- First-aid measures after ingestion : Do not induce vomiting. Keep individual calm. Obtain medical attention.

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

- Most important symptoms/effects, acute and delayed : Eye contact may provoke the following symptoms: Irritation; Tearing, redness, or discomfort. Prolonged skin contact may result in dermatitis in sensitive persons. High vapor concentrations can cause respiratory difficulty. Ingestion may provoke the following symptoms: Weakness; Tremors; Convulsions; Gastrointestinal disturbance. Chronic overexposure: High vapor concentrations can lead to pulmonary edema or bronchitis. Harmful if swallowed or inhaled - may cause liver and kidney damage.
- Protection of first-aiders : If potential for exposure exists refer to Section 8 for specific personal protective equipment.

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

If exposed or concerned, get medical advice and attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Alcohol-resistant foam. Dry powder. Carbon dioxide. Water spray or fog.

5.2. Special hazards arising from the substance or mixture

Dust may form explosive mixture in air. Fire or intense heat may cause violent rupture of packages. Thermal decomposition of pure Azobis-isobutyronitrile can occur above 50°C (122°F) releasing flammable and toxic products. One such product is tetramethylsuccinonitrile (TSMN) Skin or inhalation contact with TSMN can cause headache, sensation of pressure within the head, dizziness, nausea, vomiting, respiratory distress fatigue, convulsions and unconsciousness. Overexposure to TSMN can be fatal. Hydrogen cyanide and Nitrogen are hazardous decomposition products.

5.3. Advice for firefighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Use a water spray to cool exposed surfaces and to protect fire-fighters. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Use water spray or fog for cooling exposed containers. Avoid (reject) fire-fighting water to enter environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Eliminate every possible source of ignition. Ensure adequate ventilation. Avoid all contact with skin, eyes, or clothing. Handle in accordance with good industrial hygiene and safety practice.

6.1.1. For non-emergency personnel

- Protective equipment : Use appropriate personal protection equipment (PPE).
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Evacuate unnecessary personnel. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use appropriate personal protection equipment (PPE). Ventilate area.

6.2. Environmental precautions

Do not allow water (or moist air) contact with this material. Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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6.3. Methods and material for containment and cleaning up

- For containment : Absorb excess liquid spillage on inorganic adsorbent material such as fine sand, brick dust etc. Place spent adsorbent in sealed packages and contact specialist waste disposal contractor. Collect spillage.
- Methods for cleaning up : Do not use equipment in clean-up procedure which may produce sparks. Wet solid with water to produce a slurry. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Notify experts.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not eat, drink or smoke when using this product. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood. Observe very strict hygiene - avoid contact. Keep away from ignition sources. Use only in a well-ventilated area. Use personal protective equipment as required.
- Store below 75°F. Refrigerate if possible. Unstable in the absence of water (if dry) with heat. SADT dry (50°C, 122°F)
- Hygiene measures : Do not eat, drink or smoke in areas where product is used. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Comply with applicable regulations.
- Storage conditions : Store below 75°F. Refrigerate if possible. Unstable in the absence of water (if dry) with heat. Keep container tightly closed. Keep cool. Keep away from heat and ignition sources. Keep container closed when not in use. Do not store with strong oxidizing agents such as nitric acid.
- Incompatible products : Oxidizing agents. Strong bases. Strong acids. Do not store with strong oxidizing agents such as nitric acid. Keep away from heat and ignition sources.
- Storage temperature : Store below 75°F. Refrigerate if possible. Unstable in the absence of water (if dry) with heat.

SECTION 8: Exposure controls/personal protection

Exposure controls

- Appropriate engineering controls : Ensure all national/local regulations are observed. Avoid all unnecessary exposure.
- Personal protective equipment : Protective clothing. Protective goggles. Gloves. Full protective flameproof clothing. Respiratory protection of the dependent type. Avoid all unnecessary exposure.
- Materials for protective clothing : Keep suitable chemically resistant protective clothing readily available for emergency use.
- Hand protection : Wear chemically resistant protective gloves.
- Eye protection : Chemical goggles or safety glasses.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : None needed for normal use. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
- Other information : Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Paste/emulsion in water
- Colour : White
- Odour : Low odor
- Boiling point : 212 °F
- Flash point : > 200 °F
- Vapour pressure : Negligible
- Specific Gravity : ~1.1
- Solubility in water : Slightly soluble
- Solubility in solvents : Soluble in Diethyl ether.
- Oxidising : Non oxidising
- Decomposition temperature : Self-Accelerating Decomposition Temperature (SADT) (dry): 50 °C (122 °F)
- pH : ~7

9.2. Other information

No additional information available.

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SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stable at room temperature. Decomposes on heating. Ensure product remains as a water slurry - do not allow to dry out.

10.3. Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Heat. Sources of ignition. Flames. Hot surfaces.

10.5. Incompatible materials

Strong oxidising agents.

10.6. Hazardous decomposition products

In combustion emits toxic fumes. Decomposition can release hazardous gases - Hydrogen cyanide and Nitrogen. Thermal decomposition of pure Azobis-isobutyronitrile can occur above 50°C (122°F) releasing flammable and toxic products. One such product is tetramethylsuccinonitrile (TSMN) Skin or inhalation contact with TSMN can cause headache, sensation of pressure within the head, dizziness, nausea, vomiting, respiratory distress fatigue, convulsions and unconsciousness. Overexposure to TSMN can be fatal.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Harmful if swallowed. Inhalation:dust,mist: Harmful if inhaled.

| 2,2'-azobis(2-methylpropionitrile) (78-67-1) | |
|--|--|
| LD50 oral rat | 300-2000,Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Experimental value |
| LD50 dermal rat | > 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity) |
| ATE US (oral) | 500.000 mg/kg bodyweight |
| ATE US (gases) | 4500.000 ppmv/4h |
| ATE US (vapours) | 11.000 mg/l/4h |
| ATE US (dust,mist) | 1.500 mg/l/4h |

SECTION 12: Ecological information

12.1. Toxicity

| 2,2'-azobis(2-methylpropionitrile) (78-67-1) | |
|--|---|
| LC50 fish 1 | 19 mg/l (96 h; Pisces) |
| EC50 Daphnia 1 | 20 mg/l (48 h; Daphnia magna; QSAR) |
| LC50 fish 2 | > 100 mg/l (Danio rerio) |
| EC50 Daphnia 2 | > 367 mg/l (Daphnia magna) |
| Threshold limit algae 1 | 13 mg/l (Algae) |
| Threshold limit algae 2 | 4.5 mg/l (72 h; Pseudokirchneriella subcapitata; Growth rate) |

12.2. Persistence and degradability

| 2,2'-azobis(2-methylpropionitrile) (78-67-1) | |
|--|---|
| Persistence and degradability | Not readily biodegradable in water. No straightforward conclusion can be drawn based upon the available numerical values. |

12.3. Bioaccumulative potential

| 2,2'-azobis(2-methylpropionitrile) (78-67-1) | |
|--|--|
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |

12.4. Mobility in soil

Non-volatile. Heavier than water.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Remove waste in accordance with local and/or national regulations.

Sewage disposal recommendations : Do not discharge into drains or the environment.

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Waste disposal recommendations : Arrange for collection by specialised disposal company.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT
UN-No.(DOT) : UN3224
DOT Proper Shipping Name : SELF-REACTIVE SOLID TYPE C
Department of Transportation (DOT) Hazard Classes : 4.1
Packing group (DOT) : II

Additional information

Other information : Product may ship without temperature control
IATA prohibits air cargo transportation
Other information : Domestic ground transportation:
DOT (49CFR172):
DOT Exceptions:
Ground ship Domestic Highway or Rail
Shipping small quantities less than 30cc each inner receptacle:
See DOT Title 40: Transportation 173.4 : Small quantities for highway and rail
for complete shipping details and label requirements.

SECTION 15: Regulatory information

15.1. US Federal regulations

2,2'-azobis(2-methylpropionitrile) (78-67-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Self-react. C H242
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Inhalation:dust,mist) H332

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn: R20/22; -: R52/53

National regulations

No additional information available

15.3. US State regulations

2,2'-azobis(2-methylpropionitrile) (78-67-1)

U.S. - New Jersey - Right to Know Hazardous Substance List

SECTION 16: Other information

Full text of H-phrases:

| | |
|------|---|
| H242 | Heating may cause a fire |
| H302 | Harmful if swallowed |
| H332 | Harmful if inhaled |
| H412 | Harmful to aquatic life with long lasting effects |

HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur
Flammability : 1 Slight Hazard
Physical : 1 Slight Hazard

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SDS US (GHS HazCom 2012)

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