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Material Safety Data Sheet A-1550

HMIS (USA)
Health Hazard – 3
Fire Hazard – 1
Reactivity - 0

SECTION 1: IDENTIFICATION

Product Name: Accelerator
Chemical Name: Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl
Chemical Family: Amine
CAS Number: 2855-13-2 **EINECS Number:** 220-666-8
Type of Use: Hardener
Emergency: CHEMTREC 800-424-9300

SECTION 2: COMPOSITION / OCCUPATIONAL EXPOSURE LIMITS

Component Name: Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl
CAS #: 2855-13-2
Source/Date: US (ACGIH)
Value/Units: N/L
Concentration by Wt/Mol% Min.: 98.0

SECTION 3: HAZARD IDENTIFICATION

Emergency Overview This material is HAZARDOUS by OSHA Hazard Communication definition.

Signal Word: DANGER.

Hazards: Corrosive. Slightly combustible. Severe skin irritant. Skin absorption hazard. Corrosive to eyes. High inhalation hazard - Delayed pulmonary edema. High ingestion hazard - corrosive/irritant.

R-Phrases R21/22 - Harmful in contact with skin and if swallowed. R34. Causes burns. R43 - May cause sensitization by skin contact. R52 - Harmful to aquatic organisms. R53 - May cause long term adverse effects in the aquatic environment.

S.Phrases **S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S61 - Avoid release to the environment. Refer to special instructions/Safety data sheet.**

Physical State: **Liquid.**

Color: **Yellow.**

Odor: **Slight Amine-like Odor.**

Odor Threshold: **No Data Available.**

Potential Health Effects

Routes of Exposure: **Inhalation Eye Skin Ingestion**

Signs and Symptoms of

Acute Exposure: **May cause eye and skin irritation. Possible systemic toxicity by skin absorption. Contact with liquid can cause eye irritation, tearing, blurred vision, and transient corneal injury.**

Skin: **This material is a severe skin irritant. Possible systemic toxicity by skin absorption.**

Inhalation: **Due to low vapor pressure, significant exposure by inhalation appears unlikely. However, exposure to high concentrations of mist, aerosol, or vapors at elevated temperatures may cause irritation, coughing and discomfort in the nose, throat, and chest.**

Eye: **May cause severe eye irritation and/or burns. Direct contact with liquid may cause burns resulting in impairment of vision and corneal damage.**

Ingestion: **Severe irritation and/or burns may occur to the mucous membranes of the mouth, esophagus and stomach.**

Chronic Health Effects: **Prolonged or repeated dermal contact may cause dermatitis and allergic skin sensitization, characterized by a urticaria (hive-like) reaction.**

Conditions Aggravated by

Exposure: **Personnel with preexisting skin disorders or chronic respiratory diseases should avoid exposure to this product.**

SECTION 4: FIRST AID MEASURES

General: **DO NOT INDUCE VOMITING. Risk of damage to lungs exceeds poisoning risk., Side effect onset may be delayed., Prolonged observation may be indicated.**

Inhalation: **If overcome by exposure, remove victim to fresh air immediately. Obtain emergency medical attention if breathing difficulty persists beyond 15 minutes.**

Eye: **For even minor eye contact, immediately rinse with clean water for 20-30 minutes. Retract eyelids often. Obtain emergency medical attention. Prompt action is essential.**

Skin: **Remove contaminated clothing and wash skin with plenty of soap and water. Immediately flush with water for at least 15 minutes. If sticky, use waterless cleaner first. Seek medical attention if ill effect or irritation develops. Wash clothing before wearing again.**

Ingestion: If a large quantity is swallowed, immediately administer lukewarm water (pint! 1/2 litre) only if victim is completely conscious/alert and induce vomiting. Do not induce vomiting. Obtain emergency medical attention.

Physician's Detoxification Procedures

Assess extent and severity of tissue injury by appropriate diagnostic studies and procedures. Airway protection may be necessary.

SECTION 5: FIRE FIGHTING MEASURES - NFPA: Health; Fire; Reactivity; Others: No hazards rating information is available for this system.

Flammability Classification: OSHNFP A Class IIIB combustible liquid.

Flash Point / Method: - 112 °C(234 °F)

Auto-Ignition Temperature: No Data Available.

Flammable Limits: LOWER: No Data Available. UPPER: No Data Available.

Hazardous Combustion

Products:

Incomplete combustion may produce carbon monoxide, oxides or compounds of nitrogen and other toxic gases.

Special Conditions to Avoid:

Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source. Fine sprays/mists may be combustible at temperatures below normal flash point.

Extinguishing Media:

Suitable: Carbon Dioxide. Dry chemical. Water spray.

Unsuitable: No additional information available.

Fire Fighting Instructions:

Protective Equipment/Clothing: Do not enter fire area without proper protection. Use self-contained breathing apparatus and body-covering protective clothing.

Instructions: Do not enter area without proper protection. Fight fire from a safe distance/protected location. Heat may build enough pressure to rupture closed containers/spreading fire/increasing risk of burns/injuries. Use water spray/fog for cooling. Avoid frothing/steam explosion. Burning liquid may float on water. Although water soluble, may not be practical to extinguish fire by water dilution. Notify authorities immediately if liquid enters sewer/public waters.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Release Response: Release can cause human health hazard/contaminate water supplies. Evacuate/limit access. Equip responders with proper protection. Restrict water use for cleanup. Stop release. Prevent flow to

sewer/public waters. Impound and recover large land spill. Soak up small spills with inert solids. Use suitable disposal containers. On water, material is soluble and may float or sink. Contain/collect rapidly to minimize dispersion. Disperse residue to reduce aquatic harm. Report per regulatory requirements.

SECTION 7: HANDLING AND STORAGE

Handling: Material should be handled with caution. Avoid personal contact with any residue. May be corrosive to some metals. Do not use or store without examining material compatibilities.

Storage: Inspect containers carefully and frequently for leaks. All containers should be labeled to warn against exposure. Store away from heat, sparks, open flame and strong oxidizing agents. Do not use other materials in feed or storage systems without examining material compatibilities.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls: Both local exhaust and general room ventilation are usually required.

Personal Protection:

Inhalation: If exposure is possible, use approved supplied air respirator with full face mask operated in positive pressure mode.

Skin: Impervious protective suit with integral or tight-fitting gloves, boots, and full head and face protection must be worn. The equipment must be cleaned thoroughly after each use.

Eye: Eye protection including both chemical splash goggles and face shield must be worn when possibility exists for eye contact due to splashing/spraying liquid, airborne particles, or vapor. Contact lenses must not be worn.

Other Hygienic Practices No occupational exposure limit(s) have been established for this material or its ingredients. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Recommended Work

Practices Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity	Solid/Liquid: - 0.92 - 0.925 g/cc, @ (25 °C/77F)	Vapor: - 5.9, @ (IS - 20 °C/59 - 68 oF), (Air = 1.0)
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Bulk Density
No Data Available.

Boiling Point:	- 247 °C/477 oF	pH: Not applicable.
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Vapor Pressure:	- 0.011 mm Hg, @ (25 °C/77 F)	Viscosity: No Data Available.
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Solubility:	Solubility (Water): < 500 g/1 , @ (25 °C / 77 F)
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Octanol/Water Partition Coefficient in Kow: Not applicable.

Melting/Freezing Point: - 10 °C/50°F

Dry Point No Data Available. **Evaporation Rate:** No Data Available.

Molecular Weight: 170 g/mol

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: This material is stable when properly handled and stored. **Conditions to Avoid:** No additional information available.

Incompatibility with: Acids. Strong oxidizing agents.

Decomposition Products: Carbon monoxide. Carbon dioxide. Oxides of nitrogen.

Hazardous Polymerization: Not expected to occur.

Reactions with Air and Water: Not expected to occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Product Summary: No additional toxicology information is available for this material.

LD50 (Oral)
Rat 1030 MG/KG

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: It may cause long term adverse effects in the aquatic environment.

Toxicity to Fish/Amphibians

Test type	Species	Value / Units
LC50 / 96 HOURS	fish.	110 mg/l

Toxicity to Aquatic Invertebrates:

Test type	Species	Value / Units
EC50 / 24 HOURS	waterflea (daphnia magna).	42 mg/l

Toxicity to Aquatic Plants

Test type	Species	Value / Units
EC50 / 72 HOURS	green algae.	37 mg/i

Environmental Fate: No additional information available.

Bioaccumulation: No data available.

Biodegradation: This material is expected to be partially or slowly biodegradable.

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SECTION 13: DISPOSAL CONSIDERATIONS

(See applicable local, state, and international regulations, specifications or other requirements). Contaminated product, soil, water, container residues and spill cleanup materials may be hazardous wastes under applicable local, state or international regulations due to toxicity. Use registered transporters. Burn concentrated liquids. Avoid flame-outs. Assure emissions comply with applicable regulations. Do not treat biologically; may poison/upset plant biomass. Decontaminate containers thoroughly before reuse/disposal. Consider permitted contractor for off site treatment/disposal.

SECTION 14: TRANSPORT INFORMATION

Special Requirements:

If you reformulate or further process this material, you should consider re-evaluation of the regulatory status of the components listed in the composition section of this sheet, based on final composition of your product. The DOT shipping description and classification offered in this document for this material assumes the presence of a hazardous substance, by definition, in a vessel in an amount equal to or in excess of a reportable quantity. Shippers should determine the appropriateness of the DOT information offered in this document based on shipping container capacity. Additional requirements may apply. See 49 CFR.

Proper Shipping Name:

UN/NA ID:	Isophorone diamine 2289	
NAER Guidebook:	153	Marine Pollutant: No
Labels:	CLASS 8, Corrosive.	
DOT Hazard Class:	8, PG III	IMO/IMDG Hazard Class: 8, PG III
ADR/VLG Hazard Class:	8, 53°, (c)	ICAO/IATA Hazard Class: 8, PG III
ADNR/VBG Hazard Class:	8, 53°, (c)	RIDNSG Hazard Class: 8, 53°, (c)

SECTION 15: REGULATORY INFORMATION

Regulatory Advisory No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA.

Regulatory Status: All components of this product are listed or are exempt from listing on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

SARA. Section 313 Emissions Reporting: This material does not contain chemical components with known CAS numbers that exceed the De Minimus reporting levels established by SARA Title III, Section 313 and 40 CFR 372. The Section 313 regulatory status if the remaining components of this material for which CAS numbers have not been established, has not been determined.

SARA. Section 311/312: Based upon available information, this material and/or components are classified as the following health and/or physical hazards according to Section 311 & 312:

Immediate (Acute) Health Hazard.

Delayed (Chronic) Health Hazard.

State Reporting:

- This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would be subject to the proposition.

. A Volatile Organic Compound (VOC) is any volatile compound of carbon excluding methane, carbon monoxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, 1,1-trichloromethane, methylene chloride, (FC-23), (CFC-113), (CFC-22), (CFC-114), and (CFC-115). By this definition, this is a (VOC) material.

SECTION 16: OTHER INFORMATION

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Latest Revision(s): Conversion to SAP template.

