

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

GHS Product Code: C025-1-0C0
 Product Name: CORCHEM® 25 ACCELERATOR
 SINGLE COMPONENT MATERIAL, COLOR: CLEAR
 Recommended use: INDUSTRIAL PROTECTIVE COATING/LINING ADDITIVE
 Restrictions on use: INTENDED FOR PROFESSIONAL USE ONLY
 Manufacturer: CORCHEM MANUFACTURING, INC.
 Address: 1227 SOUTH MURPHY STREET
 ODESSA, TEXAS, USA 79766-8811
 Emergency phone: INFOTRAC: +1-352-323-5300 (U.S. TOLL-FREE 800-535-5053)
 Revision: 2-11092015

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

- Category 1 Skin irritation
- Category 1A Skin sensitization
- Category 1C Skin corrosion
- Category 2A Eye irritation
- Category 3 Combustible liquids
Acute aquatic toxicity with long lasting effects
- Category 4 Acute toxicity – Dermal
Acute toxicity – Inhalation

GHS Label elements, including precautionary statements

Hazard Pictograms



Signal word: **Danger**

GHS Hazard statement(s)

- H227: Combustible liquid.
- H314: Causes severe skin burns and eye damage.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H333: May be harmful if inhaled.
- H412: Harmful to aquatic life with long lasting effects.

GHS Precautionary statement(s)

- P102: Keep out of reach of children.
- P103: Read label before use.
- P202: Do not handle until all safety precautions have been read and understood.

NFPA Rating

HMIS

3	Health
2	Flammability
1	Physical Hazard
J	Personal Protection

PERSONAL PROTECTION INDEX						
A	Goggles	G	Goggles + Gloves + Respirator			
B	Goggles + Gloves	H	Goggles + Gloves + Apron + Respirator			
C	Goggles + Gloves + Apron	I	Goggles + Gloves + Respirator			
D	Goggles + Gloves + Apron	J	Goggles + Gloves + Apron + Respirator			
E	Goggles + Gloves + Respirator	K	Goggles + Gloves + Apron + Boots			
F	Goggles + Gloves + Apron + Respirator	X	Consult your supervisor or S.O.P. for "SPECIAL" handling directions			
A	n	o	p	q	r	s
Safety Glasses	Splash Goggles	Face Shield & Eye Protection	Gloves	Boots	Synthetic Apron	Full Suit
t	u	w	y	z	Additional Information	
Dust Respirator	Vapor Respirator	Dust & Vapor Respirator	Full Face Respirator	Airline Hood or Mask		



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- P210: Keep away from heat / sparks / open flames / hot surfaces – No smoking.
- P220: Keep / Store away from clothing / potential ignition sources / combustible materials.
- P233: Keep container tightly closed.
- P234: Keep only in original container.
- P260: Do not breathe dust / fumes / gas / mist / vapors / spray.
- P264: Wash skin thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P273: Avoid release to the environment.
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P301 + P330 + P331: IF SWALLOWED: Rinse Mouth. Do NOT induce vomiting.
- P301 + P312: IF SWALLOWED: Call a POSION CENTER or doctor / physician if you feel unwell.
- P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P333 + P313: If skin irritation or rash occurs: Get medical advise / attention.
- P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P342 + P315: If experiencing respiratory symptoms: Get immediate medical advice/attention
- P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313: If eye irritation occurs: Get medical attention.
- P362: Take off contaminated clothing and wash before reuse.
- P391: Collect Spillage.
- P401: Store protected at temperatures between 40°F (4°C) and 100°F (38°C).
- P501: Dispose of contents/container to comply with the requirements of environmental protection and waste disposal legislation and any regional, local authority requirements.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient(s)</u>	<u>CAS No.</u>	<u>% (by Weight)</u>
Blocked cycloaliphatic diamine	541-4-37-3	>90
CBI Additives [NOT REGULATED BY GHS, DOT, IMDG, OR IATA]	MIXTURE	>10

SECTION 4: FIRST AID MEASURES

Ingestion

If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. **Seek immediate medical attention**, contact a poison control center or doctor/physician for advice about whether to induce vomiting. If possible, do not leave individual unattended.

Skin

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, initiate and maintain continuous irrigation until patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing, seek immediate medical attention. If skin is not damaged and symptoms persist, avoid further exposure, **seek immediate medical attention**. Launder clothing before reuse.

Inhalation

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If not breathing, if breathing is irregular, or if respiratory arrest occurs, artificial respiration or oxygen should be administered by trained personnel only. It may be dangerous to provide mouth-to-mouth resuscitation. Keep person warm and quiet; **seek immediate medical attention**. If unconscious, place in recovery position and get medical attention immediately. Maintain open airway. Loosen tight clothing such as a collar, tie, belt, or waistband. Get

medical attention if adverse health effects persist or are severe.

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 30 minutes while holding eyelids open; seek immediate medical attention.

Protection of first aid personnel

No action shall be taken involving any personal risk without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, wear gloves.

Notes to physicians or first aid providers

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable extinguishing media

Alcohol-resistant foam, water-fog, carbon dioxide, dry chemicals, dry sand, Limestone powder.

Unsuitable extinguishing media

High volume water jet.

Specific hazards and by-products from combustion

Burning produces noxious and toxic fumes. **Downwind personnel must be evacuated.** Decomposition products may be toxic and include the following materials: carbon dioxide, carbon monoxide, and various hydrocarbons. Fumes and vapors from the thermal and chemical decompositions vary widely in combustion and toxicity.

Special protective equipment and precautions for fire-fighters

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

THIS MATERIAL IS TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS, CONTAMINATED FIRE EXTINGUISHING MEDIA MUST NOT BE DISCHARGED INTO WATERWAYS, SEWERS, DRAINS, OR THE ENVIRONMENT. FIRE RESIDUES AND CONTAMINATED FIRE EXTINGUISHING MEDIA MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.

Flash point

DIN 51758: 187°F (86°C)

Explosive limit

No data available.

Autoignition temperature

DIN 51 794: 590°F (310°C)

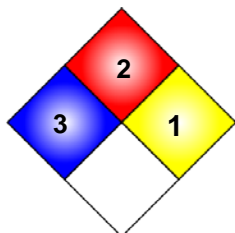
Fire and explosion hazards

Material is combustible and may give off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near container, (even empty), because product (even just residue) can ignite explosively.

Water may be ineffective for extinguishment unless used under favorable conditions by experienced fire fighters. Use water spray to cool fire exposed containers and structures until fire is out if it can be with minimal risk. Avoid spreading burning material with water used for cooling purposes. Cool storage with water, if exposed to fire.

NFPA Rating

Health:	3
Flammability:	2
Reactivity:	1
Special:	



SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions

No action shall be taken involving personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Wear appropriate personal protective equipment (see section 8).

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).

COLLECT CONTAMINATED MATERIAL SEPARATELY. RESIDUES AND CONTAMINATED MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.

Small spill

Protect from moisture. Stop leak if without risk. Dilute with water and mop up if water soluble or absorb liquid with a dry, inert, non-combustible, absorbent material such as: sand, diatomaceous earth, vermiculite, or other absorbent material. Persons not wearing proper personal protective equipment should be excluded from area of spill.

COLLECT CONTAMINATED CLEAN-UP MATERIALS SEPARATELY. RESIDUES AND CONTAMINATED CLEAN-UP MATERIALS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.

Large spill

Stop leak if without risk. Move containers from spill area. Prevent run-off to sewers, water courses basements, or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with a dry, inert, non-combustible, absorbent material such as: sand, diatomaceous earth, vermiculite, or other absorbent material and place in container for disposal according to local regulations (see section 13). Dispose via a licensed waste disposal contractor. **Contaminated absorbent material may pose the same hazard as the spilled product.** If run-off occurs, notify proper authorities as required, that a spill has occurred. Note: see section 1 for emergency contact information and section 13 for waste disposal.

COLLECT CONTAMINATED CLEAN-UP MATERIALS SEPARATELY. RESIDUES AND CONTAMINATED CLEAN-UP MATERIALS MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE

Handling

Wear appropriate personal protective equipment (see section 8). Eating, Drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face prior to eating, drinking, and smoking. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

OPENED, PARTIAL, AND EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THIS SAFETY DATA SHEET (SDS) MUST BE OBSERVED.

Storage

Store in accordance with local regulations. Store in a dry, cool, climate controlled area between 40°F (8°C) and 100°F (38°C), away from incompatible materials (see section 10), food and drink. Protect from extremes in temperature and direct sunlight. Keep container tightly closed and sealed until ready to use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

OPENED, PARTIAL, AND EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THIS SAFETY DATA SHEET (SDS) MUST BE OBSERVED.

Other precautions

Consult local, state, and federal hazardous waste regulators before disposing of waste materials.

Can cause skin irritation, eye irritation, and allergic skin reaction. Avoid contact with eyes, skin, and clothing. Wash thoroughly after using. **DO NOT TAKE INTERNALLY! HARMFUL IF SWALLOWED! FOR PROFESSIONAL USE ONLY.** Use protective skin cream such as FEND2 (MSA) where skin contact is likely. Prevent prolonged or repeated breathing of vapor, or spray mists. Liquid penetrated shoes and leather, may cause delayed irritation or skin reactions. **KEEP OUT OF REACH OF CHILDREN. DO NOT HANDLE UNTIL THE MANUFACTURER'S INSTRUCTIONS AND SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD!** Contact manufacturer if further information is required.

EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE SAFETY DATA SHEET (SDS) MUST BE OBSERVED.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limit(s)

Note: The table includes Occupational Exposure Limits (OELs) for substances listed in the OSHA Z-1 – Z-3 tables as well as OEL's listed by NIOSH and ACGIH. These organizations periodically make revisions to their OELs and so they should be consulted directly for their most current values and substances, as well as special notations such as for skin absorption. The TLVs[®] and BEIs[®] are copyrighted by ACGIH[®] and are not publicly available. However, they can be purchased in their entirety from the ACGIH[®]. Permission must be requested from ACGIH[®] to reproduce the TLVs[®] and BEIs[®], CORCHEM[®] is a registered member of ACGIH[®].

Authorities:

ACGIH The American Conference of Governmental Industrial Hygienists

NIOSH United States Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health

OSHA United States Department of Labor, Occupational safety and Health Administration

BEI[®] Biological Exposure Indices: the BEI[®] is a guideline for the control of potential health hazards to the worker by knowledgeable occupational health professionals and should not be used for any other purpose.

IDLH Immediately Dangerous to Life and Health: is defined by (NIOSH) as exposure to airborne contaminants that is "likely to cause death or immediate or delayed permanent adverse health effects or prevent escape from such an environment."

The OSHA regulation (1910.134(b)) defines the term as "an atmosphere that poses an immediate threat to life, would cause irreversible adverse health effects, or would impair an individual's ability to escape from a dangerous atmosphere."

IDLH values are often used to guide the selection of breathing apparatus that are made available to workers or firefighters in specific situations.

mg/m³ Approximate milligrams of substance per cubic meter of air.

PEL Permissible Exposure Limit: usually given as a time-weighted average (TWA). A TWA is the average exposure over a specified period of time, usually a nominal eight hours.

ppm Parts of vapor or gas per million parts of contaminated air by volume at 25 degrees C and 760 torr.

REL Recommended Exposure Limit: is an occupational exposure limit that has been recommended by NIOSH to OSHA for adoption as a permissible exposure limit. The REL is a level that NIOSH believes would be protective of worker safety and health over a working lifetime if used in combination with engineering and work practice controls, exposure and medical monitoring, posting and labeling of hazards, worker training and personal protective equipment. Although not legally enforceable limits, NIOSH RELs are considered by OSHA during the promulgation of legally enforceable PELs.

TLV[®] Threshold Limit Value: TLVs[®] refer to airborne concentrations of chemical substances and represent conditions under which it is believed that *nearly all* workers may be repeatedly exposed, day-after-day, over a working lifetime, without adverse health effects.

TLV-C Threshold Limit Value-Ceiling: The concentration that should not be exceeded during any part of the working exposure.

TLV-STEL Threshold Limit Value-Short Term Exposure Limit: a 15 minute TWA exposure that should not be exceeded at any time during a work day, even if the 8-hour TWA is within the TLV-TWA.

TLV-TWA Threshold Limit Value-Time Weighted Average: the Time Weighted Average concentration for a conventional 8-hour workday and a 40-hour workweek to which it is believed that nearly all workers may be repeatedly exposed, day-after-day for a working lifetime without adverse effects.

TWA Time Weighted Average: is the employee's average airborne exposure in any 8-hour work shift of a 40-hour work week which shall not be exceeded.

<u>Component(s)</u>	<u>Exposure Level</u>	<u>Authority</u>	<u>Adopted Value(s)</u>		<u>Note</u>
Blocked cycloaliphatic diamine	IDLH	NIOSH	–	–	IDLH Not Determined
Blocked cycloaliphatic diamine	PEL	OSHA	–	–	OEL Not Established
Blocked cycloaliphatic diamine	TLV-TWA	ACGIH	–	–	OEL Not Established
Blocked cycloaliphatic diamine	REL-CEIL	NIOSH	–	–	OEL Not Established

Exposure guidelines

Consult local authorities for acceptable exposure limits.

Personal Protective Equipment (PPE)

Respiratory protection

When utilizing this material wear a NIOSH approved cartridge respirator or gas mask suitable to keep airborne mists and vapor concentration below the time-weighted threshold limit values. **WHEN USING IN POORLY VENTILATED OR CONFINED SPACES, USE A FRESH-AIR SUPPLYING RESPIRATOR OR A SELF-CONTAINED BREATHING APPARATUS.**

Skin protection

To prevent repeated or prolonged skin contact, wear appropriate safety garments such as impervious gloves, head/neck covers, aprons, jackets, pants, coveralls, and boots. Drench affected area with water for at least 15 minutes. Wash hands at the end of each work shift and before eating, drinking, using tobacco products, or restroom.

Eye protection

Chemical splash goggles and face shield in compliance with OSHA regulations are advised for eye protection. Provide readily accessible eye wash stations and safety showers.

Engineering controls

Use explosion-proof suction type exhaust fans and blowers with sufficient CFM capacity to keep solvent vapors below 20% of the explosive limit. Provide sufficient mechanical ventilation to maintain exposure below TLV(s).

Provide readily accessible eye wash stations and safety showers.

Other protective clothing or equipment

Use protective barrier creams on exposed skin areas. Discard contaminated leather articles. Remove contaminated clothing; do not allow contaminated clothing out of the workplace.

Work Hygienic practices

As with all products of this nature, good personal hygiene is essential. Hands and other exposed areas should be washed thoroughly with soap and water after contact, and before eating, drinking, using tobacco products or restrooms. Regular laundering and/or replacement of contaminated clothing is essential to reduce indirect skin contact with this material.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.):	Viscous yellowish liquid
Odor:	amine like
Odor Threshold:	Not available.
pH:	Not available.
Melting Point / Freezing Point:	Not available.
Initial Boiling Point and Range:	575°F (302°C)
Flash Point:	DIN 51758: 187°F (86°C)
Evaporation Rate:	Not available.
Flammability (solid, gas):	Not applicable.
Upper/Lower flammability or explosive limits:	Not available.
Vapor Pressure:	0.13 hPa @ 68°F (20°C)
Vapor Density (air = 1):	Not available.
Relative Density (water = 1):	0.8675 @ 68°F (20°C)
Solubility (in water):	Insoluble

Partition coefficient: <i>n</i>- octanol/water:	5.2 @ 77°F (25°C)
Auto-ignition temperature:	590°F (310°C)
Decomposition Temperature:	Not available.
Volatile Organic Compounds (VOC):	0.00
Percent solids by weight:	100
Percent solids by volume:	100
Specific Gravity:	0.86 @ 77° F (25° C)
Weight per gallon:	7.18

SECTION 10: STABILITY AND REACTIVITY

Reactivity

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

Chemical stability:

Stable under recommended storage and usage conditions.

Possibility of hazardous reactions:

Autoignition may occur with cotton waste or similar combustible materials.

Conditions to avoid:

Material is combustible and might give off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near the material handling point. Never use welding or cutting torch on or near container (even empty) because product (even just residue) can ignite explosively.

Incompatible materials:

Water, humidity, amines, accelerators, promoters, other reactive chemicals. Incompatible with cotton waste or similar combustible materials.

Hazardous polymerization:

Under normal conditions of storage and use, hazardous polymerization will not occur. Contact with moisture, other materials that react with isocyanates, or temperatures above 464°F (240°C), may cause polymerization.

Hazardous decomposition or products:

By fire or high heat: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), dense black smoke. Isocyanate, Isocyanic acid. Other potentially toxic vapors or fumes. Decomposition products in hydrolysis / thermal decomposition include Isophorone diamine and isobutyraldehyde.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological Information

Likely routes of exposure and potential health effects

Ingestion:	Corrosive and may cause severe and permanent damage to mouth, throat, and stomach. This material has a low order of acute oral toxicity based upon animal test data. May be harmful if swallowed.
Skin:	Corrosive. May cause serious skin burns resulting in permanent damage. Causes skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.
Eyes:	Corrosive. May cause severe burns to the eyes resulting in permanent damage. May injure eye tissue and result in permanent damage.
Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation. High concentrations of mists may irritate the nose and throat and cause nausea, headache, dizziness, weakness, and fatigue.

Acute Toxicity Data

Product/ingredient name	Method	Species	Dose	Exposure	Result
Blocked cycloaliphatic diamine	OECD 401 Oral	Rat	4,150mg/kg	4 h	LD ₅₀
Blocked cycloaliphatic diamine	OECD 402 Dermal	Rabbit	>5,000 mg/kg	4 h	LD ₅₀
Blocked cycloaliphatic diamine	OECD 403 Inhalation	Rat	No data available	–	LC ₅₀
Blocked cycloaliphatic diamine	OECD 404 Dermal	Rabbit	–	4 h	Corrosive

Blocked cycloaliphatic diamine OECD 405 Eyes Rat – 4 h Irritating

OECD: Organization for Economic Cooperation and Development.
OECD Test Method 401: Acute Oral Toxicity. (Following the OECD Council decision, the test 401 'Acute Oral Toxicity' was deleted on 12/07/2002.)
OECD Test Method 420: Acute Oral toxicity – fixed dose procedure.
OECD Test Method 402: Acute Dermal Toxicity.
OECD Test Method 403: Acute Inhalation Toxicity.
OECD Test Method 404: Acute Dermal Irritation/Corrosion.
OECD Test Method 405: Acute Eye Irritation/Corrosion.

Germ cell mutagenicity

No known significant effects or critical hazards on the product itself.

Component	Test	Result
Blocked cycloaliphatic diamine	OECD 473 (<i>in vitro</i>)	Negative
Blocked cycloaliphatic diamine	OECD 474 (<i>in vivo</i>)	Negative

OECD: Organization for Economic Cooperation and Development.
LOEL: "Lowest-observed-effect-level".
NOAEL: "No-observed-adverse-effect level".

Carcinogenicity

No known significant effects or critical hazards on the product itself.

Component	Classification	Listing Body
Blocked cycloaliphatic diamine	Not Listed	IARC
Blocked cycloaliphatic diamine	Not Listed	NTP

IARC: World Health Organization's (WHO) International Agency for Research on Cancer.
NTP: U.S. Department of Health and Human Services' (DHHS) National Toxicology Program.

Reproductive toxicity

No known significant effects or critical hazards on the product itself.

Component	Test	Result
Blocked cycloaliphatic diamine	OECD 414	No data available
Blocked cycloaliphatic diamine	OECD 416	No data available

OECD: Organization for Economic Cooperation and Development.

Specific Target Organ Toxicity, Single Exposure (STOT-SE)

This material is not classifiable as to STOT-SE.

Specific Target Organ Toxicity, Repeated Exposure (STOT-RE)

This material is not classifiable as to STOT-RE.

Aspiration hazard

No data available.

Potential chronic health effects

Skin corrosion / irritation

Corrosive to skin. May cause burns resulting in permanent damage.

Serious eye damage / irritation

Corrosive to eye tissue. May cause burns resulting in permanent damage.

Respiratory or skin sensitization

High concentrations of mists may irritate the nose and throat and cause nausea, headache, dizziness, weakness, and fatigue. Causes skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

No additional data on the product itself.

Component	Test	Endpoint	Species	Result
Blocked cycloaliphatic diamine	OECD 408 (oral)	NOAEL	Rat	No data
Blocked cycloaliphatic diamine	OECD 411 (dermal)	NOAEL	Rat	No data

OECD: Organization for Economic Cooperation and Development.
NOAEL: "No-observed-adverse-effect level".

SECTION 12: ECOLOGICAL INFORMATION

Environmental effects

Highly toxic to aquatic life with long lasting effects. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Ecotoxicity

Aquatic ecotoxicity

Toxicity to Fish

Product/ingredient name	Test	Species	Dose	Exposure
Blocked cycloaliphatic diamine	LC ₅₀	Danio rerio (zebra fish)	110 mg/l	96 h

Toxicity to aquatic invertebrates

Product/ingredient name	Test	Species	Dose	Exposure
Blocked cycloaliphatic diamine	EC ₅₀	Daphnia magna (water flea)	14.7 mg/l	48 h

Toxicity to aquatic algae and cyanobacteria

Product/ingredient name	Test	Species	Dose	Exposure
Blocked cycloaliphatic diamine	EC ₅₀	Desmodesmus subspicatus (green algae)	>100 mg/l	72 h

Persistence and degradability

Product/ingredient name	Test	Concentration	Result
Blocked cycloaliphatic diamine	Aerobic – 28 days	34%	Readily biodegradable

Bioaccumulative potential

Product/ingredient name	Log K _{ow}	BCF	Potential
Blocked cycloaliphatic diamine	5.2	3.6	Low

Mobility in soil

Product/ingredient name	
Blocked cycloaliphatic diamine	Moderate mobility

Other adverse affects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

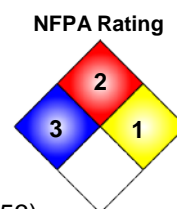
Waste Disposal Method

EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE SAFETY DATA SHEET (SDS) MUST BE OBSERVED Consult local, state and federal hazardous waste regulators before disposing of waste materials. The generation of waste should be avoided or minimized wherever possible. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. **DISPOSE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS ONLY.**

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

Proper Shipping Name	Amines, Liquid, Corrosive, N.O.S. (Blocked Diamine Solution)
Hazard Class	8
ID Number	UN2735
Packing Group	III
Emergency phone	+1-352-323-3500 (U.S. Toll Free: 800-535-5053)



HMIS	
3	Health
2	Flammability
1	Physical Hazard
J	Personal Protection



TRANSPORT CANADA

Proper Shipping Name Amines, Liquid, Corrosive, N.O.S. (Blocked Diamine Solution)
 Hazard Class 8
 ID Number UN2735
 Packing Group III
 Emergency phone +1-352-323-3500 (US Toll Free: 800-535-5053)

IMO/IMDG

Proper Shipping Name Amines, Liquid, Corrosive, N.O.S. (Blocked Diamine Solution)
 Hazard Class 8
 ID Number UN2735
 Packing Group III
 Emergency phone +1-352-323-3500 (US Toll Free: 800-535-5053)
 Stowage and segregation Category A, "Separated from" acids.
 EmS Fire / EmS Spill F-A / S-B

IATA/DGR

Proper Shipping Name Amines, Liquid, Corrosive, N.O.S. (Blocked Diamine Solution)
 Hazard Class 8
 ID Number UN2735
 Packing Group III
 Emergency phone +1-352-323-3500 (US Toll Free: 800-535-5053)
 Passenger and Cargo Aircraft
 Quantity limitation: 2.57 US-Gal (5 L)
 Packaging instruction: 852
 Special Provisions: None
 ERG Code: 8L
 Cargo Aircraft Only
 Quantity limitation: 6.80 US-Gal (60 L)
 Packaging instruction: 856
 Special Provisions: None
 ERG Code: 8L

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

Nombre propio del transporte Aminas, líquido, corrosivo, N.E.P. (solución diamina bloqueada)
 Clase de peligro 3
 Número de identificación del UN2735
 Grupo de embalaje III
 teléfono de emergencia +1-352-323-3500 (US Toll Free: 800-535-5053)

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS**U.S. Department of Labor, Occupational Safety & Health Administration (OSHA)**

Hazard Communication Standard (HCS) Classification: See Section 2 above
 Effective 26 March 2012, OSHA modified its Hazard Communication Standard (HCS), **29 CFR Parts 1910, 1915, and 1926**, to conform to the United Nations' Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Emergency Planning and Community Right-to-Know Act (EPCRA)

42 U.S. Code, Chapter 116

Sections: 302/304 Extremely Hazardous Substances (EHS):

Extremely Hazardous Substances (EHSs), (40 CFR Part 302, Table 302.4)

Ingredient(s) CAS No. Reportable Quantity (RQ)

– – –

Sections 311/312 Community Right-To-Know Hazard Categories

Extremely Hazardous Substances (EHSs), (40 CFR Part 355, Appendix A and Appendix B)

Category A: Immediate (Acute) Health Hazard: Yes
Category D: Delayed (Chronic) Health Hazard: No
Category F: Fire Hazard: Yes
Category R: Reactive Hazard: No
Category S: Sudden Release of Pressure Hazard: No

Ingredient(s) CAS No. Category
Blocked cycloaliphatic diamine 5419-37-3 A, F

***Note: The information above is provided for informational purposes only.**

No individual chemical in the listing above appears in 40 CFR Part 355, Appendix A or Appendix B.

Section: 313 Toxics Release Inventory (TRI) Reportable Ingredients:

Extremely Hazardous Substances (EHSs), (40 CFR Part 372, Subpart D)

Ingredient(s) CAS No.

– –

Clean Air Act

42 U.S. Code, Chapter 85

Section 111 Volatile Organic Compound (VOC) Content Limits:

40 CFR Part 59, Subpart D, Table 1

Volatile Organic Compounds (VOC): 0.00 g/l, (0.00 lb/gal)

Section 112(b) Hazardous Air Pollutants (HAPs):

42 U.S. Code § 7412 - Hazardous air pollutants

Ingredient(s) CAS No.

– –

Ozone Depleting Substances (ODS):

42 U.S. Code § 7671a - Listing of class I and class II substances

Ingredient(s) CAS No.

– –

State Regulations

USA, California State Safe Drinking & Toxic Enforcement Act (Proposition 65): This product contains the following chemical(s) known to the State of California to cause cancer, birth defects, or any other harm.

Ingredient(s) CAS No.

– –

USA, Louisiana Right-to-Know Hazardous Substance List (RTKHSL) Components:

Ingredient(s) CAS No.

– –

USA, Massachusetts Environmental Policy Act (MEPA), 301 CMR 41.00 components:

Ingredient(s) CAS No.

– –

USA, Michigan Critical Materials Register (CMR) Components:

Ingredient(s) CAS No.

– –

USA, New Jersey Right to Know Hazardous Substance List (RTKHSL) Components:

Ingredient(s) CAS No.

– –

USA, Pennsylvania Right-to-Know Hazardous Substance List (RTKHSL) Components:

Ingredient(s) CAS No.

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Product specific health and safety data in other sections of this Safety Data Sheet (SDS) may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

SECTION 16: OTHER INFORMATION

Preparation Information

This Safety Data Sheet (SDS) has been prepared by CORCHEM® Corporation.

Revision: 2-11092015, Product Code: C025-1-0C0

DISCLAIMER: All information contained herein is based upon data obtained from CORCHEM's suppliers and/or recognized technical sources.

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