

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name : SPOT® 8020
Common chemical name : Alkanolamine
Supplier : ExpoMix Corporation
1099 Brown Street, Unit 203
Wauconda, IL 60084-3107
USA
Ph.: USA (847) 487-0730
Fx.: USA (847) 487-0217
Emergency telephone : 800-424-9300 – CHEMTREC

SECTION 2 - INGREDIENTS

Substance / preparation	: Preparation		
Chemical Name	CAS	EINECS	Amount
Formulated alkanolamine	n.a.	n.a.	97%

Occupational Exposure Limit(s), if available, are listed in section 8.

SECTION 3 - HEALTH HAZARDS

HMIS HEALTH	3	FLAMMABILITY	2	REACTIVITY	0
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Physical / chemical hazards : Contains no listed carcinogens in concentrations of 0.1% or greater.
Environmental hazards : n.a.
Human health hazards : Harmful if in contact with skin. Harmful if swallowed. Corrosive to eyes. Corrosive to respiratory system. Corrosive to skin. Severe eye irritant. Severe respiratory tract irritant. Severe skin irritant. May cause sensitization.

SECTION 4 - FIRST AID

Effects and symptoms

- Ingestion** : In case of ingestion give 3 to 4 glasses of milk or water. Do not induce vomiting. Seek medical advice.
- Inhalation** : Move patient to fresh air. If breathing has stopped or is labored give mouth-to-mouth respiration and/or oxygen. Prevent aspiration of vomit. Turn victim's head to the side. Seek medical advice.
- Skin contact** : Remove contaminated clothing and shoes. Immediately flush affected area with water for at least 15 minutes. Destroy contaminated leather. Do not apply ointments. Wash clothes prior to re-use. Seek medical advice.
- Eye contact** : Hold eyelids apart and immediately flush with plenty of water for at least 15 minutes. Seek medical advice.

SECTION 5 – FIRE AND EXPLOSION DATA

Extinguishing media

- Suitable** : Water spray, foam, carbon dioxide, dry chemical.
- Protection of fire-fighters** : Face shield. Butyl rubber boots, gloves and body suit. Use self-contained breathing apparatus. May generate toxic or irritating combustion products. Vapor may form explosive mixtures with air.
- Fire Class** : II

Sudden reaction and fire may result if product is mixed with an oxidizing agent. May generate carbon monoxide gas, toxic nitrogen oxide gases, and ammonia gas. Evacuate personnel in vicinity and downwind.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

- Personal precautions** : Breathing protection required. Avoid contact with skin, eyes and clothing. Protect workers with water spray.
- Environmental precautions** : Discharge into the environment should be avoided.
- Containment techniques** : Stop the leak if possible. Ventilate space. Reduce vapor spreading with a water spray. Shut off or remove all ignition sources. Construct a dike to prevent spreading.
- Methods for cleaning up** : If recovery is not feasible, mix with dry soil, sand or non-reactive absorbent. Transfer to appropriate chemical waste containers by suction. Flush area with water spray. Recover spilled material with vacuum truck.

SECTION 7 - HANDLING AND STORAGE

Handling

: Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well ventilated work space. Keep containers closed when empty. Empty containers may contain explosive vapors. Flush empty containers with water to remove residual combustible or flammable liquid and vapors. Smoking in area is prohibited. Label empty tank cars "Dangerous Empty". Remove all equipment which may be a source of ignition from the vicinity. Do not eat, drink or smoke. Emergency showers and eye wash stations should be readily accessible.

Storage

: Keep away from acids, oxidizers, heat, flames and sparks. Keep in cool, dry, ventilated storage and in closed containers. Store away from ignition sources. Ground all containers during transfer. Store in steel containers preferably located outdoors, above ground, and surrounded by dikes to contain spills or leaks. Do not store in reactive metal containers. Recommended container materials include plastic, stainless and carbon steel.

SECTION 8 - PERSONAL PROTECTION AND EXPOSURE CONTROLS

Engineering measures

: Explosion proof and general local exhaust with 12 to 30 air changes per hour.

Hygienic measures

: n.a.

Occupational Exposure Limits

: n.a.

Personal protective equipment**Respiratory system**

: Not required under normal conditions in a well-ventilated workplace.

Skin and body

: Impervious clothing. Slicker suit. Rubber boots. Full rubber suit. Butyl or latex protective clothing.

Hands

: Cuffed, impermeable neoprene, butyl or nitrile rubber gloves.

Eyes

: Full face shield with goggles underneath.

SECTION 9 - TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid
Appearance	: Clear
Non-secondary amine content	: 97% min
Secondary amine content	: 0.3% max
Water content	: 3 % max
Odor	: Amine-like
Specific gravity	: 0.889
Initial boiling point	: 127 °C
Initial freezing point	: < -30 °C
Flash point (calculated)	: 46.8 °C
Maximum color	: < 30 APHA
Equiv. Mol. weight of pure amine	: 93.72
Volatility	: 100 %
pH	: ~ 11.2 @ 0.1N
Solubility in water	: 100%

SECTION 10 – STABILITY AND REACTIVITY

Stability	: Stable
Conditions to avoid	: Heat.
Materials to avoid	: Organic and inorganic acids, oxidizing agents, sodium or calcium hypochlorite. Product slowly corrodes aluminum, copper, zinc and galvanized surfaces. Reaction with peroxides may cause violent decomposition of peroxide possibly creating an explosion. A reaction accompanied by large heat release occurs when the product is mixed with acids. Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material.
Hazardous Decomposition	: Nitrogen oxide can react with water vapors to form corrosive nitric acid. Carbon monoxide and dioxide in a fire. Ammonia when heated. Nitrogen oxides and nitric acid in a fire. Irritating and toxic fumes at elevated temperatures. The oxides of nitrogen gases emitted on decomposition are highly toxic.
Hazardous polymerization	: None.
Corrosive properties	: Slowly corrodes aluminum, copper, zinc and galvanized surfaces.
Oxidizing properties	: n.a.

SECTION 11 – TOXICOLOGICAL PROPERTIES

Acute toxicity

Oral LD50 in rats : n.a.
 Dermal LD50 in rabbits : n.a.
 Inhalation : n.a.

Sensitization

n.a.

SECTION 12 – ECOLOGICAL INFORMATION

Elimination

n.a.

Behavior and environmental fate

n.a.

Ecotoxic effects

Daphnia magna EC50 48 hours : n.a.
 Green algae EC50 72 hours : n.a.

SECTION 13 – DISPOSAL CONSIDERATIONS

Methods of Disposal

: Comply with all federal, state and local environmental regulations. Almost all disposal methods are subject to regulation under RCRA. In particular, review RCRA Land Disposal Restrictions. Under some conditions, material contaminated with this product may be land filled at appropriately permitted facilities.

Please refer to the relevant EU regulations, in particular the guidelines / decisions of the Council regarding handling of wastes (e.g. 75/442/EEC, 91/689/EEC, 94/67/EC, 94/904/EC) as implemented in National regulations.

Must be disposed of by special means, e.g. suitable incineration, in accordance with local regulations.

SECTION 14 – TRANSPORT INFORMATION

Land – Road / Railway - Air

DOT/IATA: UN2734 / Amine, Liquid, Corrosive, Flammable, N.O.S. (alkylaminoalcohol)
 / 8 (3) / PG II – 49 CFR 171.11 / NAERG Guide No..... 132

Inland waterways

n.a.

Sea

n.a.

SECTION 15 – REGULATORY INFORMATION

EC Regulations

EINECS/ELINCS master Inventory

All components included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer a monomer.

EEC Symbol

Corrosive (R)

EEC Risk (R)

Flammable (R10). Causes burns (R34). Harmful by inhalation, in contact with skin and if swallowed (R20/21/22)

EEC Safety Phrases

Do not breathe vapors (S23V). Avoid contact with eyes (S25). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26). Wear suitable protective clothing, gloves and eye/face protection (S36/37/39). In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) (S45).

US Federal Regulations

TSCA – All components are included in the EPA Toxic Substances Control Act, Chemical Substance Inventory.

TSCA 12(B) components

None

OSHA Hazard Communication Standard (29CFR1910.1200) hazard classes

Corrosive. Sensitizer. Combustible.

EPA SARA Title III Section 312 (40CFR370) hazard class

Immediate health Hazard. Fire Hazard.

EPA SARA Title III Section 313 (40CFR372) toxic chemicals above “de minimis” level

None

State of California Proposition 65 substances known to cause cancer and/or reproductive toxicity.

None

New Jersey trade secret registry number (s)

None

Australia - AICS - Each independent component included on inventory.

Japan - MITI - Each independent component included on inventory.

Philippines - PICCS - Each independent component included on inventory.

Korea - ECL - Each independent component included on inventory.

China - SEPA - Each independent component included on inventory.

