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**MATERIAL SAFETY DATA SHEET**

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Revised 2/02/04  
Replaces 8/12/03  
Printed 2/03/04

**DIVERSE-A-COOL 14****MSDS ID: 01203**

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**I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

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Product Name: DIVERSE-A-COOL 14  
Product Descriptor: Water based synthetic metal working fluid  
MANUFACTURER: JOHNSON DIVERSEY, INC. EMERGENCY PHONE NUMBER: (800) 851-7145  
3630 E. KEMPER ROAD  
CINCINNATI, OH. 45241

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**II. HAZARDOUS COMPONENTS**

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| Component Name   | CAS Number | %       | Exposure Limits | Units |
|------------------|------------|---------|-----------------|-------|
| -----            | -----      | -----   | -----           | ----- |
| MONOETHANOLAMINE | 141-43-5   | 1 - 5%  | TWA 7.5 STEL 15 | MG/M3 |
| TRIETHANOLAMINE  | 102-71-6   | 5 - 15% | TWA 5           | MG/M3 |

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**III. HAZARDS IDENTIFICATION**

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**EMERGENCY OVERVIEW:**

**WARNING** - Product contains irritating or harmful chemicals which cause eye or skin irritation or burns. May be harmful if swallowed. Do not get product in eyes, on skin or clothing. Wear eye protection and rubber gloves to prevent skin contact when handling product. Wash after handling. Avoid breathing dust, vapors or product spray.

**POSSIBLE ROUTES OF ENTRY:** Inhalation and ingestion.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**ACUTE:** EYES: Severe irritation with redness, pain and swelling. SKIN: Irritation with dryness or itching may develop with pain and redness. INGESTION: If swallowed, pain, nausea and vomiting may result. INHALATION: Causes irritation of respiratory tract.

**CHRONIC:** Same as acute effects.

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Dermatitis or sensitive skin.

**TARGET ORGAN(S) OF CHEMICAL HAZARD(S):** Eyes, skin and respiratory tract.

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**IV. FIRST AID MEASURES**

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**EYES:** Immediately flush with plenty of water. Get medical attention.  
**SKIN:** Flush skin with plenty of water and wash with mild soap. If irritation develops, get medical attention.  
**INGESTION:** If swallowed, rinse mouth with water. Dilute by drinking several glasses of water. DO NOT induce vomiting. If patient vomits, rerinse mouth. Get immediate medical attention. NOTE: Never give fluids by mouth to an unconscious person.  
**INHALATION:** Remove to fresh air and seek medical attention.

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**V. FIRE FIGHTING MEASURES**

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FLASH POINT (degrees F): NONE FLAME EXTENSION: N/A  
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: NONE UEL: NONE  
UNUSUAL FIRE OR EXPLOSIVE HAZARDS: Toxic fumes or vapor may form during fire.  
EXTINGUISHING MEDIA: Water spray, CO2, foam or dry powder.  
FIRE FIGHTING INSTRUCTIONS: Wear full protective gear and positive pressure breathing apparatus SCBA) in fire area.  
SPECIAL INSTRUCTIONS: Spilled product may cause slippery surface and fall hazard.

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**VI. ACCIDENTAL RELEASE MEASURES**

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IF MATERIAL IS RELEASED OR SPILLED:  
Contain spill. Wear protective clothing. Soak up or absorb liquid on suitable absorbent material. Collect and place in chemical waste container. Dispose of in accordance with local, State and Federal regulations. Flush spill area with water.  
This product does not contain a reportable quantity (RQ) under CERCLA.

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**VII. HANDLING AND STORAGE**

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HANDLING AND STORAGE PRECAUTIONS: Store in a cool dry area. Keep from freezing. If frozen, thaw and mix to make usable. Do not pressurize container to empty. Keep container closed when not in use.

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**VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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EYE/FACE PROTECTION: Safety glasses with side shields.  
PROTECTIVE GLOVES: Alkali resistant.  
RESPIRATORY PROTECTION: Product does not have any established exposure limits. NIOSH/MSHA approved respirator recommended in enclosed or confined spaces where high air concentration or long exposure may occur.  
OTHER PROTECTIVE CLOTHING/EQUIPMENT: Eyewash and safety shower in area if contact or splash hazard exists.  
ENGINEERING CONTROLS:  
VENTILATION: Normal room ventilation should be sufficient to control airborne levels.

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**IX. PHYSICAL AND CHEMICAL PROPERTIES**

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APPEARANCE AND ODOR: Clear, light yellow liquid, mild amine/alcohol odor.

|                                     |                      |
|-------------------------------------|----------------------|
| BOILING POINT (DEG F): 212          | FREEZING POINT: < 32 |
| SPECIFIC GRAVITY/BULK DENSITY: 1.02 |                      |
| pH: 9.8                             | pH 1% SOLUTION: 9.5  |
| VOLATILE BY VOLUME: 77.85           |                      |
| SOLUBILITY IN WATER: Emulsifiable   |                      |
| VAPOR PRESSURE(mmHg): 17.5 at 20 C  | VAPOR DENSITY: 17.3  |

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## X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Product stable.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizing agents; Chlorine and chlorinated compounds

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion forms; oxides of carbon; oxides of nitrogen

HAZARDOUS POLYMERIZATION: None known.

## XI. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING: Toxicological testing has not been performed on the product. Listed below is the available toxicology test data for components of the product.

## TOXICITY TEST DATA:

## Triethanolamine:

|                   |          |             |
|-------------------|----------|-------------|
| Acute Oral LD50   | (rat)    | >4000 mg/kg |
| Acute Dermal LD50 | (rabbit) | >2000 mg/kg |

## Monoethanolamine:

|                   |          |                                            |
|-------------------|----------|--------------------------------------------|
| Acute Oral LD50   | (rat)    | - 1-2 gm/kg                                |
| Acute Dermal LD50 | (rabbit) | - 1.0 gm/kg                                |
| Irritation, Eyes  | (rabbit) | - corrosive (Draize 6.5-8.0/8.0)           |
| Irritation, Skin  | (rabbit) | - extremely irritating (Draize 80-110/110) |

## Acetylenic Diol:

|                 |          |            |
|-----------------|----------|------------|
| Acute Oral LD50 | (rat)    | 4900 mg/kg |
| Eye Irritancy   | (rabbit) | severe     |
| Skin Irritancy  | (rabbit) | none       |

## XII. ECOLOGICAL INFORMATION

No data available.

## ECOTOXICITY TEST DATA:

No data available.

ENVIRONMENTAL FATE: No data available.

## XIII. DISPOSAL CONSIDERATIONS

RCRA REGULATED: Not Regulated.

Adjust pH of diluted product and discharge to industrial sewer in accordance with discharge permit or local POTW regulations. Use product in container until empty. Triple rinse container with water and add to process. Recycle or dispose of container according to product labeling or Federal, State or local regulations.

## XIV. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up to date shipping information.

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**XV. REGULATORY INFORMATION**

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U.S. Federal Regulations:

TSCA: All ingredients in this product are on TSCA inventory.

HAPS: NONE

VOC CONTENT (EPA Method 24A): % VOC: 19 Lb/Gal VOC: 1.6

CERCLA/EPCRA:

Section 313 Toxic Chemicals:

None

SARA Section 311/312:

ACUTE:YES CHRONIC:NO FIRE:NO REACTIVITY:NO

SUDDEN RELEASE OF PRESSURE:NO

LISTED CARCINOGEN: NONE

NTP: NO IARC: NO OSHA: NO

HMIS RATINGS: HEALTH: 2 FIRE: 0 REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: B

NFPA RATING: HEALTH: 2 FIRE: 0 REACTIVITY:0 SPECIAL:NONE

STATE RIGHT-TO-KNOW INFORMATION:

Triethanolamine - CAS #102-71-6

Water - CAS #7732-18-5

Alkyl amino carboxylic acid - CAS #Proprietary

Monoethanolamine - CAS #141-43-5

Acetylenic Diol - CAS #126-86-3

CALIFORNIA PROPOSITION 65:

None of the ingredients are on the California proposition 65 list.

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**XVI. OTHER INFORMATION**

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Disclaimer: The information contained in this material safety data sheet is based on the knowledge of this specific product and current national legislation. It applies to the product as sold, use dilutions may be less hazardous. It may not be valid for this material if used in combination with any other materials or in a process. It is the user's responsibility to evaluate the handling, and use.