**McGean-Rohco, Inc.**
2910 Harvard Avenue
Cleveland, Ohio 44105-3010 USA
Phone: 216-441-4900 Fax: 216-441-1377
*www.mcgean.com*

# MATERIAL SAFETY DATA SHEET

**35470**

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PRODUCT NAME: CHROME NITRATE SOLN 11.5% CR MSDS No.: 35470
REVISION: 10
PREPARED BY: DIR ENV AFFAIRS ISSUE DATE:07/11/11 EFFECTIVE DATE: 06/20/13

## SECTION A. MATERIAL IDENTIFICATION.

MANUFACTURER: McGEAN-ROHCO, INC.
2910 HARVARD AVE.
CLEVELAND OH 44105
TELEPHONE: 216-441-4900

CHEMTREC:
TELEPHONE #: 800-424-9300
OR 703-527-3887

## SECTION B. INGREDIENTS AND HAZARDS.

INGREDIENT: CHROMIUM NITRATE - SARA 313 CHEMICAL
(CONCENTRATION AS CHROMIUM)
10.5 - 12.5%
CAS NUMBER: 13548-38-4
EXPOSURE LIMIT: TWA: 0.5mg/CUBIC METER AS CHROMIUM
SUSPECT CARCINOGEN: NO

## SECTION C. PHYSICAL DATA.

APPEARANCE: DEEP BLUE-GREEN LIQUID
ODOR: MILD
SPECIFIC GRAVITY: 1.5
pH: STRONGLY ACIDIC
EVAPORATION RATE: <BUTYLACETATE

BOILING POINT: >100C
FREEZING POINT: UK
VAPOR PRESSURE: UK
VAPOR DENSITY: UK
% VOLATILE BY VOLUME: NA
SOLUBILITY IN WATER: COMPLETE

## SECTION D. FIRE AND EXPLOSION HAZARD DATA.

FLASH POINT: NONE
TEST METHOD: NA

LIMITS: LEL: NA
UEL: NA

HAZARD SYMBOL CODES

| | NFPA | HMIS |
|---|---|---|
| HEALTH: | 3 | 3 |
| FLAMMABILITY: | 0 | 0 |
| REACTIVITY: | 0 | 0 |
| SPECIAL: | | |

EXTINGUISHING MEDIA: NOT FLAMMABLE

SPECIAL FIRE FIGHTING PROCEDURES: IF INVOLVED IN A FIRE,FULL PROTECTIVE GEAR AND SELFCONTAINED BREATHING APPARATUS SHOULD BE WORN.

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| | |
|---|---|
| UNUSUAL FIRE OR EXPLOSION HAZARDS: | NONE |

## SECTION E. REACTIVITY DATA

MATERIAL IS STABLE.
HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

| | |
|---|---|
| CONDITIONS TO AVOID: | NA |
| INCOMPATIBILITY MATERIALS TO AVOID: | ALKALIES |
| HAZARDOUS DECOMPOSITION PRODUCTS: | IF INVOLVED IN A FIRE, OXIDES OF NITROGEN COULD BE GIVEN OFF. |

## SECTION F. HEALTH HAZARD DATA.

| | |
|---|---|
| SUMMARY OF RISKS: | SARA ACUTE. |
| MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY CONTACT: | NONE KNOWN |
| TARGET ORGANS: | EYES,RESPIRATORY SYSTEM,LUNGS,SKIN,MUCOUS MEMBRANES. |
| PRIMARY ENTRY ROUTES: | THROUGH CONTACT AND INHALATION OF VAPORS. |
| ACUTE EFFECTS: | CORROSIVE TO ALL TARGET ORGANS. |
| CHRONIC EFFECTS: | NONE KNOWN |

SIGNS & SYMPTOMS OF OVEREXPOSURE:

| | |
|---|---|
| EYE CONTACT: | BURNING SENSATION. |
| SKIN CONTACT: | BURNING OR STINGING SENSATION. |
| INHALATION: | IRRITATION OF NOSE AND THROAT. |
| INGESTION: | BURNING OF MOUTH AND THROAT. |

EMERGENCY & FIRST AID PROCEDURES:

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EYE CONTACT: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

SKIN CONTACT: FLUSH WITH WATER FOR 15 MINUTES. IF ANY IRRITATION PERSISTS, GET MEDICAL ATTENTION.

INHALATION: REMOVE TO FRESH AIR.

INGESTION: GIVE SEVERAL GLASSES OF WATER AND GET MEDICAL ATTENTION. DO NOT INDUCE VOMITING.

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## SECTION G. SPILL, LEAK AND DISPOSAL PROCEDURES.

SPILL/LEAK PROCEDURES: NEUTRALIZE WITH LIME OR SODA ASH. FLUSH AREA WITH WATER.

WASTE MANAGEMENT & DISPOSAL PROCEDURES: NEUTRALIZE WITH LIME TO A pH OF 7.8. THIS WILL PRECIPITATE THE PLUS 3 CHROMIUM. THE MOTHER LIQUOR CAN BE SEWERED. SEND THE PRECIPITATE TO A WASTE DISPOSAL FACILITY. FOLLOW ALL LOCAL,STATE, AND FEDERAL REGULATIONS.

RCRA # (IF DISPOSED AS RECEIVED): D002

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## SECTION H. SPECIAL PROTECTION INFORMATION

PERSONAL PROTECTIVE EQUIPMENT:

- GOGGLES: CHEMICAL GOGGLES AND FACE SHIELD.
- GLOVES: RUBBER.
- RESPIRATOR: IF TWA IS EXCEEDED,MUST BE NIOSH OR MSHA APPROVED.
- OTHER: SUFFICIENT TO PREVENT SKIN CONTACT.

WORKPLACE CONSIDERATIONS:

- VENTILATION: SUFFICIENT TO KEEP BELOW TWA LIMITS.
- SAFETY STATIONS: EYE WASH
- OTHER: SAFETY SHOWER.

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## SECTION I. SPECIAL PRECAUTIONS

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| | |
|---|---|
| SPECIAL HANDLING & STORAGE PROCEDURES: | STORE IN A WELL VENTILATED AREA AWAY FROM HEAT AND/OR SUNLIGHT. OPEN DRUMS CAREFULLY TO VENT ANY RESIDUAL FUMES PRESENT AWAY FROM FACE. |

| | | |
|---|---|---|
| D.O.T. CLASS | 8.0 | UN REGISTER: UN-3264 |
| IMDG CLASS: | 8.0 | UN REGISTER: UN-3264 |
| IATA CLASS: | 8.0 | UN REGISTER: UN-3264 |

EXPLANATION OF SYMBOLS
NA = NOT APPLICABLE UK = UNKNOWN

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