

J. T. Baker Chemical Co.

222 Red School Lane Phillipsburg, N.J. 08865 24-Hour Emergency Telephone -- (201) 859-2151

> Chemtrec # (800) 424-9300 National Response Center # (800) 424-8802

C4323 -02

Chromium Nitrate, 9-Hydrate

Page: 1

Effective: 09/10/86

Issued: 07/13/87

SECTION I - PRODUCT IDENTIFICATION

Product Name:

Chromium Nitrate, 9-Hydrate

Formula:

Cr (NO3)3.9H20

Formula Wt:

400.15 7789-02-8

CAS No.:

NIOSH/RTECS No.: GB6300000

Common Synonyms: Chromic Nitrate, 9-Hydrate

Product Codes: 1606

PRECAUTIONARY LABELLING

BAKER SAF-T-DATATH Sustem

REACTIVITY

MODERATE Laboratory Protective Equipment









Precautionary Label Statements

WARNING!

HARMFUL IF SWALLOWED OR INHALED CAUSES IRRITATION

Avoid contact with eyes, skin, clothing.

Avoid breathing dust. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling.

SECTION II - HAZARDOUS COMPONENTS

Component

CAS No.

Chromium Nitrate, 9-Hydrate

90-100 7789-02-8

SECTION III - PHYSICAL DATA

Boiling Point:

N/A

Vapor Pressure(mmHg): N/A

lting Point: 60°C (140°F)

Vapor Density(air=1): N/A

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SECTION III - PHYSICAL DATA (Continued)

Specific Gravity: N/A

 $(H_2O=1)$

Evaporation Rate:

N/A

(Butul Acetate=1)

Solubility(H20): Appreciable (more than 10 %) % Volatiles by Volume: 0

Appearance & Odor: Violet odorless crystals.

SECTION IU - FIRE AND EXPLOSION HAZARD DATA

Flash Point:

N/A

Flammable Limits: Upper - N/A %

Lower - N/A %

Fire Extinguishing Media

Use water spray.

Special Fire-Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure

Unusual Fire & Explosion Hazards

Strong oxidizer. Contact with other material may cause fire. Can react violently with shock, friction or heat.

Toxic Gases Produced

nitrogen oxides

SECTION U - HEALTH HAZARD DATA

NOTE: While the specific compounds cannot be identified, there is evidence that certain chromium compounds cause cancer in humans and experimental animals. Chromium is widely distributed in air, water, soil and food. Trivalent chromium may be an essential trace ingredient in the human diet. All chromium compounds are regulated by the EPA, but no specific data is available to link trivalent chromium to cancer. Prudent judgement dictates that exposure should be minimized as much as possible. (See IARC Monograph on Evaluation of Carcinogenic Risk of Chemicals to Humans, Volume 23 Lyon, France IARC, 1980, pp. 205-323).

Threshold Limit Value (TLV/TWA): 0.5 mg/m3 (

ppm)

Toxicity: LD₅₀ (oral-rat)(mg/kg)

3250

Carcinogenicity: NTP: Yes IARC: Yes Z List: No OSHA reg: No



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SECTION U - HEALTH HAZARD DATA (Continued)

Effects of Overexposure

Dust may irritate eyes. Dust may cause sneezing and coughing. Contact with skin or eyes may cause irritation.

Medical Conditions Generally Aggravated By Exposure None Identified

Routes Of Entry ingestion, eye contact, skin contact

Emergency and First Aid Procedures

CALL A PHYSICIAN.

If swallowed, if conscious, immediately induce vomiting. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Flush skin with water.

SECTION UI - REACTIVITY DATA

Hazardous Polymerization: Will not occur Stability: Stable

Conditions to Avoid: heat

Incompatibles: strong reducing agents, aluminum, magnesium,

organic materials, combustible materials

Decomposition Products: oxides of nitrogen

SECTION VII - SPILL AND DISPOSAL PROCEDURES

Steps to be taken in the event of a spill or discharge
Wear self-contained breathing apparatus and full protective clothing. Keep combustibles (wood, paper, oil, etc.) away from spilled material. With clean shovel, carefully place material into clean, dry container and cover; remove from area. Flush spill area with water.

Disposal Procedure

Dispose in accordance with all applicable federal, state, and local environmental regulations.

EPA Hazardous Waste Number: D007 (EP Toxic Waste)

SECTION UIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Uentilation: Use general or local exhaust ventilation to meet

TLU requirements.

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SECTION UIII - INDUSTRIAL PROTECTIVE EQUIPMENT (Continued)

Respiratory Protection: A respirator with dust/mist filter is recommended.

If airborne concentration exceeds TLU, a self-

contained breathing apparatus is advised.

Safety glasses with sideshields, uniform, rubber Eye/Skin Protection:

gloves are recommended.

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATA TM Storage Color Code: Orange (general storage)

Special Precautions

Keep container tightly closed. Store separately and away from flammable and combustible materials.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC (D.O.T.)

Nitrate, n.o.s. (Chromium Nitrate, 9-Hydrate) Proper Shipping Name

Hazard Class Oxidizer

NA1477 DN/NA OXIDIZER Labels

1 LBS. Reportable Quantity

INTERNATIONAL (I.M.O.)

Chromium nitrate Proper Shipping Name

Hazard Class UNZNA UN2720

OXIDIZING AGENT Labels

N/A = Not Applicable or Not Available

The information published in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets periodically as new information becomes available. J. T. Baker makes no warranty or representation about the accuracy or completeness nor fitness for purpose of the information contained herein. COPYRIGHT 1987 J. T. BAKER CHEMICAL CO.