



Safety Data Sheet

In accordance with CFR 1910.1200 (OSHA HCS)


SDS No. 534

Review Date: January 16, 2020

1 Identification of substance and company

Product name: **Chromium (III) chloride, hexahydrate**
Product code: 11271, 11687
Relevant identified uses of the substance: Research and product development
Manufacturer/Supplier: Noah Technologies Corporation
1 Noah Park
San Antonio, Texas 78249-3419
Phone: 210-691-2000
Fax: 210-691-2600
Web site: www.noahtech.com
Emergency information: CHEMTREC
800-424-9300

2 Hazards identification

Emergency Overview:
Pictogram(s): 

Signal word(s): Warning

Hazard statements: H302 - Harmful if swallowed

Precautionary statements: P264 - Wash skin thoroughly after handling
P 270 - Do not eat, drink or smoke when using this product.
P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Rinse mouth.
P501 - Dispose of contents/ container in accordance with local/ state/ federal/ national/ international regulations

GHS Classification: Acute toxicity, Oral - 4
Hazards not otherwise classified: None

HMIS ratings (scale 0-4):

Health hazard:	1
Flammability:	0
Physical hazard:	0

3 Composition/Information on ingredients

Chemical name: Chromium (III) chloride, hexahydrate
Designation: (CAS#): 10060-12-5
EC number: 233-038-3
Formula: CrCl₃·6H₂O
Synonyms: Chromic chloride; Chromium sesquichloride

4 First aid measures

After inhalation: Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Only qualified personnel should administer oxygen. Get medical attention.

After skin contact: Wash with soap and water. If irritation persists seek medical advice.

After eye contact: Rinse opened eye for at least 15 minutes under running water. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, seek medical advice.

After ingestion: If conscious, rinse mouth out with water. Never give anything by mouth to an unconscious person. Seek medical advice.

Information for doctor: Harmful if inhaled or swallowed. Poison by skin contact, inhalation, intramuscular, intravenous and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. Human mutagenic data. Contact with skin or eyes may cause irritation.

5 Fire-fighting measures

Suitable and unsuitable extinguishing agents: Use water spray, carbon dioxide, dry chemical, earth, sand, or foam. Use extinguishing media most

Special hazards caused by the material, its products of combustion or resulting gases: suitable to surrounding conditions.
Hydrogen chloride gas; oxides of chromium

Special fire fighting procedures: Wear self-contained breathing apparatus. Always wear full fire fighting equipment/clothing in fire situations

6 Accidental release measures

Person-related safety precautions: Always wear personal protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

Measures for environmental protection: Do not let product enter drains.

Measures for cleaning/collecting: Sweep or scoop up and remove. Keep in suitable, closed containers for disposal. Dispose of contaminated material as waste according to item 13

Additional information:
See Section 7 for information on safe handling
See Section 8 for information on personal protective equipment
See Section 13 for information on disposal
See Section 15 for regulatory information

7 Handling and storage

Information for safe handling: Keep container tightly sealed. Store in cool, dry place. Ensure good ventilation/ exhaust at the workplace

Storage requirements to be met by storerooms and containers: No special requirements.

Incompatibility (avoid contact with): Strong oxidizers

Further information about storage conditions: Moisture sensitive

8 Exposure controls/personal protection

Ventilation requirements: Always maintain exposure below permissible exposure limits. Local exhaust.

Components with exposure limits that require monitoring:
ACHIG TLV: TWA 0.5 mg(Cr)/m³
OSHA PEL: TWA 0.5 mg(Cr)/m³:8H

Additional information:
None

General protective and hygienic measures:
The usual precautionary measures for handling chemicals should be adhered to
Keep away from foodstuffs, beverages and food
Instantly remove any soiled and impregnated garments
Wash hands during breaks and at the end of the work
Avoid contact with the eyes and skin

Personal protective equipment:

Respiratory protection: Only use NIOSH/MESA or CEN approved equipment. For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.

Hand protection: Neoprene / Natural rubber / Impervious

Eye protection: Safety glasses / goggles

Skin protection: Protective work clothing

Additional protective equipment: Sufficient to prevent contact. Emergency eyewash and safety shower.

9 Physical and chemical properties

Physical state: Crystals

Color: Greenish-black to violet

Odor: Odorless

Molecular Weight (Calculated): 266.45

pH No data available

Melting point/freezing point/range: 83 C

Boiling point/range: No data available

Sublimation temperature/start: No data available

Flash point: Non-flammable

Autoignition temperature: No data available

Danger of explosion: No data available

Flammable limits: No data available

Lower: No data available

Upper: No data available

Evaporation Rate: No data available

Vapor pressure (mm Hg): No data available

Specific gravity: 1.76

Solubility in/Miscibility with water: 585 g/L @ 25 C

10 Stability and reactivity

Chemical stability: Stable under recommended storage conditions.

Conditions to be avoided: Heat. Moisture
See section 7 for information on proper handling and storage

Materials to be avoided: Strong oxidizers

Hazardous Decomposition products: Hydrogen chloride gas; oxides of chromium

11 Toxicological information

LD/LC50 values that are relevant for classification: oral-rat LD₅₀: 1,790 mg/kg

Primary irritant or corrosive effect:

on the skin: Mild irritation

on the eye: Mild irritation

Potential health effects:

Inhalation: Material is irritating to mucous membranes and upper respiratory tract

Signs and symptoms of exposure: Harmful if inhaled or swallowed. Poison by skin contact, inhalation, intramuscular, intravenous and intraperitoneal routes. An experimental teratogen. Experimental reproductive effects. Human mutagenic data.

Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH

Additional information: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

12 Ecotoxicological information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: PBT/ vPvB assessment not available as chemical safety assessment not required/ not conducted

Other adverse effects: No data available

13 Disposal considerations

Recommendation: Consult state, local or national regulation for proper disposal
Allow professional disposal company to handle waste
Must be specially treated under adherence to official regulations

Unclean packagings recommendation: Disposal must be made according to official regulations

14 Transport information

Land transport DOT

Proper shipping name: Chemicals Non-Hazardous

Technical name: Chromium (III) chloride, hexahydrate

Air transport ICAO-TI and IATA-DGR:

Proper shipping name: Chemicals Non-Hazardous

Technical name: Chromium (III) chloride, hexahydrate

UPS Ground / FedEx Ground

Proper shipping name: Chemicals Non-Hazardous

Technical name: Chromium (III) chloride, hexahydrate

UPS Air

Proper shipping name: Chemicals Non-Hazardous

Technical name: Chromium (III) chloride, hexahydrate

15 Regulatory information

SARA Section 302 Extremely Hazardous components and corresponding TPQs: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA Section 311 / 312 hazards: Acute Health Hazard / Chronic Health Hazard

SARA Section 313 components: This product contains chemical(s) subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-to-know Act of 1986 and 40CFR372

California Proposition 65 components: This product does not contain any chemicals know to State of California to cause cancer, birth defects, or any other reproductive harm

16 Other information

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use, or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.