

CHROMIUM NITRATE

Revision : 00

Date: 28.05.2019

MSDS Number : 0426

Section 1 - Chemical Product and Company Identification

1.1 Product Name Synonyms	: CHROMIUM NITRATE : Chromium (III) Nitrate, Chromic Nitrate		
CAS No.	:7789-02-8		
HS Code	2834 29 90		
Molecular Weight	: 400.15 g/mol		
Chemical Formula	: $Cr(NO_3)_3$. $9H_2O$ Hill : CrN_3O_9 . $9H_2O$		
Product Code	: A 2546, A 2547		
Brand	: SMART-LAB		
1.2 Manufacturer	:PT.Smart-Lab Indonesia		
Address	: Ruko Boulevard Taman Tekno Blok E No.10-11,BSD Sektor XI Serpong,		
	Tangerang - Indonesia		
Website	:www.smartlabid.com		
Email	:sales@smartlabid.com		
For information	:Telp: +62 21- 7588 0205(Hunting), fax:+62-21-7588 0198		
1.3 Application	: General Chemical reagent		
Emergency Telephor	ne: +62-21-7588 0205(Hunting)		

Section 2 - Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 Oxidizing solids (Category 3), H272 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word

H272

H315

H319

Hazard statement(s)



warning

May intensify fire; oxidizer. Causes skin irritation. Causes serious eye irritation..

Precautionary statement(s) P210

 $\begin{array}{l} P280 \\ P305 + P351 + P338 \end{array}$

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/ eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P337 + P313

If eye irritation persists: Get medical advice/ attention.

Supplemental Hazard Statements

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

none

Section 3 - Composition, Information on Ingredients

3.1 Substances

Synonyms	: Chromium (III) Nitrate, Chromic Nitrate	
Formula	: Cr(NO ₃) ₃ . 9H ₂ O	Hill : CrN ₃ O ₉ . 9H ₂ O
Molecular weight	: 400.15 g/mol	
CAS-No.	: 7789-02-8	
EC-No.	: 236-921-1	

Hazardous ingredients according to Regulation (EC) No 1272/2008

Component	Classification	Concentration
Chromium trinitrate CAS-No. 7789-02-8 EC-No. 236-921-1	Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2; H272, H315, H319	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4 - First Aid Measures

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

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Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Nitrogen oxides (NOx), Chromium oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel.\'20 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.Keep away from heat and sources of ignition. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Oxidizing hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8 – Exposure Controls, Personal Protection

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8.1 Control parameters

8.2 Exposure controls

Appropriat engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipmen

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril®

Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:Dermatril®

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Section 9 - Physical and Chemical Properties

Colour: dark violet No data available No data available

9.1 Information on basic physical and chemical properties Appearance Form: crystalline

Appearance	
Odour Odour Threshold	
pH	
Melting point/freezingpoint	

2.0 - 3.0 at 50 g/l at 20 °C Melting point/range: 60 °C - lit.

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Initial boiling point ar	nd boiling range	No data available	
Flash point		No data available	
Evaporation rate		No data available	
Flammability (solid, g	gas)	No data available	
Upper/lower flammab	ility or	No data available	
explosive limits			
Vapour pressure		No data available	
Vapour density		No data available	
Relative density		No data available	
Water solubility		completely miscible	
Partition coefficient: r	noctanol/water	No data available	
Auto-ignition tempera	ture	No data available	
Decomposition tempe		No data available	
Viscosity		No data available	
Explosive properties		No data available	
Oxidizing properties		The substance or mixture is classified a category 3.	as oxidizing with the

9.2 Other safety information

Bulk density

1 g/

Section 10 - Stability and Reactivity

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Heat

10.5 Incompatible materials

Organic materials, Reducing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nitrogen oxides (NOx), Chromium oxides

Other decomposition products - No data available In the event of fire: see section 5

Section 11 - Toxicological Information

11.1 Information on toxicological effects Acute toxicity

LD50 Oral - Rat - 3,250 mg/kg(Chromium trinitrate)

Skin corrosion/irritation

No data available(Chromium trinitrate)

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Serious eye damage/eye irritation No data available(Chromium trinitrate)

Respiratory or skin sensitisation

No data available(Chromium trinitrate)

Germ cell mutagenicity

Human(Chromium trinitrate) fibroblast DNA inhibition Hamster(Chromium trinitrate) ovary Cytogenetic analysis Hamster(Chromium trinitrate) ovary Sister chromatid exchange

Carcinogenicity

This product is or contains a component that is not classifiable as to its classification. (Chromium trinitrate)

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Chromium trinitrate)

Reproductive toxicity No data available(Chromium trinitrate)

Specific target organ toxicity - single exposure

No data available(Chromium trinitrate)

Specific target organ toxicity - repeated exposure No data available

Aspiration hazard No data available(Chromium trinitrate)

Additional Information RTECS: GB6300000

Section 12 - Ecological Information

12.1 Toxicity

No data available

- **12.2 Persistence and degradability** No data available
- **12.3 Bioaccumulative potential** No data available

12.4 Mobility in soil

No data available(Chromium trinitrate)

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12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product

Section 14 - Transport Information			
14.1 UN number			
ADR/RID: 2720	IMDG: 2720	IATA: 2720	
14.2 UN proper shipping name			
ADR/RID: CHROMIUM	NITRATE		
IMDG: CHROMIUM	NITRATE		
IATA: Chromium nit	rate		
14.3 Transport hazard class(es)			
ADR/RID: 5.1	IMDG: 5.1	IATA: 5.1	
14.4 Packaging group			
ADR/RID: III	IMDG: III	IATA: III	
14.5 Environmental hazards			
ADR/RID: no	IMDG Marine pollutant: no	IATA: no	
14.6 Special precautions for us	er		
Further information			
No data available			

Section 15 - Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

Section 16 - Additional Information

Full text of H-Statements referred to under sections 2 and 3.

- H272 May intensify fire; oxidizer.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.

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National Fire Protection Association (U.S.A.):

Health: 2 Flammability: 0 Reactivity: 1 Special Hazard: OX

Revision history :

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May 28, 2019	00	-

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. PT. Smartlab Indonesia Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.