CAS-No.: 7789-12-0 MSDS



### **MATERIAL SAFETY DATA SHEET (MSDS)**

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance

:

 EC Index-No.
 : 024-004-01-4

 EC-No.
 : 234-190-3

 CAS-No.
 : 7789-12-0

 Product code
 : 05850

Chemical structure : Na<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> • 2H<sub>2</sub>O

Synonyms : Sodium bichromate

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial

For professional use only

#### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba
400005 Mumbai - INDIA
T +91 22 6663 6663 - F +91 22 6663 6699
info@lobachemie.com - www.lobachemie.com

#### 1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Oxidising Solids, H272
Category 2
Acute toxicity (oral), H301
Category 3
Acute toxicity (dermal), H312
Category 4
Acute toxicity H330
(inhalation:gas) Category
1
Skin corrosion/irritation, H314

Catagory 1

Category 1

Respiratory sensitisation, H334

Category 1

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Skin sensitisation, Category 1

H317

Germ cell mutagenicity,

H340

Category 1A

Carcinogenicity, Category H350

Reproductive toxicity,

H360FD

Category 1B

Specific target organ

H335

toxicity — Single exposure, Category 3, Respiratory tract irritation

Specific target organ

toxicity — Repeated

H372

exposure, Category 1

Hazardous to the aquatic H410

environment — Chronic Hazard, Category 1

Full text of H statements: see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Carc.Cat.2; R45 Muta.Cat.2; R46 Repr.Cat.2; R60 Repr.Cat.2; R61

O; R8 T+: R26 T; R25 T; R48/23 Xn; R21 R42 C; R34 R43 N; R50/53

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. **Label elements**

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)











GHS03

GHS05

GHS06

GHS08

GHS09

Signal word (CLP) : Danger

: H272 - May intensify fire; oxidiser. Hazard statements (CLP)

H301 - Toxic if swallowed.

H312 - Harmful in contact with skin.

H314 - Causes severe skin burns and eye damage.

H317 - May cause an allergic skin reaction.

H330 - Fatal if inhaled.

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H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 - May cause respiratory irritation. H340 - May cause genetic defects.

H350 - May cause cancer.

H360FD - May damage fertility. May damage the unborn child.

H372 - Causes damage to organs through prolonged or repeated exposure.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice/attention.

P310 - Immediately call a POISON CENTER/doctor

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water .

P273 - Avoid release to the environment.

#### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Name : SODIUM DICHROMATE DIHYDRATE EXTRA PURE

CAS-No. : 7789-12-0 EC-No. : 234-190-3 EC Index-No. : 024-004-01-4

Full text of R- and H-statements: see section 16

#### 3.2. Mixtures

Not applicable

#### **SECTION 4: First aid measures**

First-aid measures after inhalation

#### 4.1. Description of first aid measures

First-aid measures general :

: IF exposed or concerned: Get medical advice/attention.: Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER/doctor. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms:

Call a POISON CENTER/doctor.

First-aid measures after skin contact : IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of

water before removing clothes. Immediately call a POISON CENTER/doctor. Specific measures (see supplemental first aid instruction on this label). Wash with plenty of water/.... Wash contaminated clothing before reuse. Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid

instruction on this label).

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : Rinse mouth. Immediately call a POISON CENTER/doctor. Specific treatment (see

supplemental first aid instruction on this label). Do NOT induce vomiting.

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#### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Causes severe skin burns and eye damage. May cause genetic defects. May cause

cancer. May damage the unborn child. May damage fertility. Causes damage to

organs through prolonged or repeated exposure.

: May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Fatal if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : Harmful in contact with skin.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Toxic if swallowed.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

Symptoms/effects after inhalation

#### 5.1. Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : May cause fire or explosion; strong oxidiser.

Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing

risk of burns and injuries.

#### 5.3. Advice for firefighters

Firefighting instructions : In case of major fire and large quantities: Evacuate area. Fight fire remotely due to

the risk of explosion.

Protection during firefighting : Do not attempt to take action without suitable protective equipment.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : No open flames. No smoking.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

Emergency procedures : Stop release.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Clear up rapidly by scoop or vacuum.

#### 6.4. Reference to other sections

No additional information available

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed

: Hazardous waste due to potential risk of explosion.

Precautions for safe handling

: Take any precaution to avoid mixing with combustibles... Do not breathe

dust/fume/gas/mist/vapours/spray. Avoid breathing

dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all institution sources if acfe to do so.

ignition sources if safe to do so.

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Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face

thoroughly after handling. Wash contaminated clothing before reuse. Contaminated

work clothing should not be allowed out of the workplace.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Comply

with applicable regulations.

Storage conditions : Keep in fireproof place. Store in original container. Store in a dry place. Protect from

moisture.

Incompatible materials : Heat sources, combustible materials.

#### 7.3. Specific end use(s)

No additional information available

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Personal protective equipment : Wear fire/flame resistant/retardant clothing.

Hand protection : protective gloves

Eye protection : Chemical goggles or face shield Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

#### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid

Molecular mass : 298 g/mol

Colour : Orange Crystalline.

Odour : odourless.

Odour threshold : No data available

pH : 3.5 - 4

Relative evaporation rate (butylacetate=1) : No data available

Melting point : 91 °C

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

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Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : 10

Relative density : No data available

Density : 2.35 g/cm<sup>3</sup>

Solubility : Water: Soluble in water (73%)

Log Pow : No data available

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : May cause fire or explosion; strong oxidiser.

Explosive limits : No data available

#### 9.2. Other information

No additional information available

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Thermal decomposition generates: Corrosive vapours.

#### 10.2. Chemical stability

May cause fire or explosion; strong oxidiser.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Direct sunlight. Heat. Sparks. Overheating. Open flame.

#### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Thermal decomposition generates: Corrosive vapours.

### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Toxic if swallowed. Harmful in contact with skin. Fatal if inhaled.

Skin corrosion/irritation : Causes severe skin burns and eye damage.

pH: 3.5 - 4

Serious eye damage/irritation : Serious eye damage, category 1, implicit

pH: 3.5 - 4

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May

cause an allergic skin reaction.

Germ cell mutagenicity : May cause genetic defects.

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Carcinogenicity : May cause cancer.

Reproductive toxicity : May damage fertility. May damage the unborn child.

STOT-single exposure : May cause respiratory irritation.

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Potential adverse human health effects

and symptoms

: Harmful in contact with skin. Toxic if swallowed.

### **SECTION 12:** Ecological information

#### 12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

#### **SODIUM DICHROMATE DIHYDRATE EXTRA PURE (7789-12-0)**

Persistence and degradability May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative potential

No additional information available

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

#### **SODIUM DICHROMATE DIHYDRATE EXTRA PURE (7789-12-0)**

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

No additional information available

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Product/Packaging disposal

recommendations

: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Hazardous waste due to potential risk of explosion.

Ecology - waste materials : Hazardous waste due to toxicity.

#### **SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

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#### 14.1. UN number

UN-No. (ADR) : 3087 UN-No. (IMDG) : 3087 UN-No. (IATA) : 3087 UN-No. (ADN) : 3087 UN-No. (RID) : 3087

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : OXIDIZING SOLID, TOXIC, N.O.S.
Proper Shipping Name (IMDG) : OXIDIZING SOLID, TOXIC, N.O.S.

Proper Shipping Name (IATA) : Oxidizing solid, toxic, n.o.s.

Proper Shipping Name (ADN) : OXIDIZING SOLID, TOXIC, N.O.S. Proper Shipping Name (RID) : OXIDIZING SOLID, TOXIC, N.O.S.

Transport document description (ADR) : UN 3087 OXIDIZING SOLID, TOXIC, N.O.S., 5.1, II, (E), ENVIRONMENTALLY

**HAZARDOUS** 

Transport document description (IMDG) : UN 3087 OXIDIZING SOLID, TOXIC, N.O.S., 5.1 (6.1), II, MARINE

POLLUTANT/ENVIRONMENTALLY HAZARDOUS

Transport document description (IATA) : UN 3087 Oxidizing solid, toxic, n.o.s., 5.1, II, ENVIRONMENTALLY HAZARDOUS : UN 3087 OXIDIZING SOLID, TOXIC, N.O.S., 5.1 (6.1), II, ENVIRONMENTALLY

**HAZARDOUS** 

Transport document description (RID) : UN 3087 OXIDIZING SOLID, TOXIC, N.O.S., 5.1 (6.1), II, ENVIRONMENTALLY

**HAZARDOUS** 

#### 14.3. Transport hazard class(es)

#### **ADR**

Transport hazard class(es) (ADR) : 5.1 (6.1)

¥



Transport hazard class(es) (IMDG) : 5.1 (6.1)
Danger labels (IMDG) : 5.1, 6.1



#### **IATA**

Transport hazard class(es) (IATA) : 5.1 (6.1) Hazard labels (IATA) : 5.1, 6.1



#### ADN

Transport hazard class(es) (ADN) : 5.1 (6.1)
Danger labels (ADN) : 5.1, 6.1

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**RID** 

Transport hazard class(es) (RID) : 5.1 (6.1)

Danger labels (RID) : 5.1, 6.1



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes

Other information : No supplementary information available

: TP33

#### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : OT2
Special provisions (ADR) : 274
Limited quantities (ADR) : 1kg
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P002, IBC06

Mixed packing provisions (ADR) : MP2
Portable tank and bulk container : T3

instructions (ADR)

Portable tank and bulk container special

provisions (ADR)

Tank code (ADR) : SGAN
Tank special provisions (ADR) : TU3
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Special provisions for carriage - Packages : V11

(ADR)

Special provisions for carriage - Loading,

unloading and handling (ADR)

Hazard identification number (Kemler No.) : 56

Orange plates

56 3087

: CV24, CV28

Tunnel restriction code (ADR) : E EAC code : 1W

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#### - Transport by sea

: 274, 900 Special provisions (IMDG) Limited quantities (IMDG) : 1 kg Excepted quantities (IMDG) : E2 : P002 Packing instructions (IMDG) IBC packing instructions (IMDG) : IBC06 IBC special provisions (IMDG) : B2 Tank instructions (IMDG) : T3 : TP33 Tank special provisions (IMDG) : F-A EmS-No. (Fire) : S-Q EmS-No. (Spillage) Stowage category (IMDG) : B

Segregation (IMDG) : SG38, SG49, SG60

MFAG-No : 141

#### - Air transport

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y543
PCA limited quantity max net quantity : 1kg
(IATA)

PCA packing instructions (IATA) : 558
PCA max net quantity (IATA) : 5kg
CAO packing instructions (IATA) : 562
CAO max net quantity (IATA) : 25kg
Special provisions (IATA) : A3
ERG code (IATA) : 5P

#### - Inland waterway transport

Classification code (ADN) : OT2
Special provisions (ADN) : 274, 802
Limited quantities (ADN) : 1 kg
Excepted quantities (ADN) : E2
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 2

#### - Rail transport

Classification code (RID) : OT2
Special provisions (RID) : 274
Limited quantities (RID) : 1kg
Excepted quantities (RID) : E2

Packing instructions (RID) : P002, IBC06

Mixed packing provisions (RID) : MP2
Portable tank and bulk container : T3

instructions (RID)

Portable tank and bulk container special

provisions (RID)

Tank codes for RID tanks (RID) : SGAN
Special provisions for RID tanks (RID) : TU3
Transport category (RID) : 2
Special provisions for carriage – Packages : W11

(RID)

Special provisions for carriage - Loading,

unloading and handling (RID)

: CW24, CW28

: TP33

Colis express (express parcels) (RID) : CE10 Hazard identification number (RID) : 56

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#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Sodium dichromate is on the REACH Candidate List

Sodium dichromate is on the REACH Annex XIV List:

Authorisation number	Sunset date	REACH authorisation exemptions
	21/09/2017	

#### 15.1.2. National regulations

#### Germany

Reference to AwSV : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to

AwSV; ID No. 56)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

### Netherlands

SZW-lijst van kankerverwekkende stoffen : SODIUM DICHROMATE DIHYDRATE EXTRA PURE is listed : SODIUM DICHROMATE DIHYDRATE EXTRA PURE is listed

NIET-limitatieve lijst van voor de : The substance is not listed

voortplanting giftige stoffen – Borstvoeding

NIET-limitatieve lijst van voor de : SODIUM DICHROMATE DIHYDRATE EXTRA PURE is listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen –

Vruchtbaarheid

NIET-limitatieve lijst van voor de : SODIUM DICHROMATE DIHYDRATE EXTRA PURE is listed

voortplanting giftige stoffen – Ontwikkeling

#### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct

contact with the product

The requirements from the Danish Working Environment Authorities regarding work

with carcinogens must be followed during use and disposal

#### 15.2. Chemical safety assessment

No additional information available

#### **SECTION 16: Other information**

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### Full text of R-, H- and EUH-statements:

Tull text of It-, II- and Lori-state	The state of the s
Acute Tox. 1 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 1
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Muta. 1A	Germ cell mutagenicity, Category 1A
Ox. Sol. 2	Oxidising Solids, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H360FD	May damage fertility. May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
R21	Harmful in contact with skin
R25	Toxic if swallowed
R26	Very toxic by inhalation
R34	Causes burns
R42	May cause sensitization by inhalation
R43	May cause sensitisation by skin contact
R45	May cause cancer
R46	May cause heritable genetic damage
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R60	May impair fertility
R61	May cause harm to the unborn child
R8	Contact with combustible material may cause fire
С	Corrosive
N	Dangerous for the environment
0	Oxidising
T	Toxic
	Very toxic
Xn	Harmful
7311	Harring

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Safety Data Sheet

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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