

CAS-No.: 7778-50-9 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.	: 024-002-00-6
EC-No.	: 231-906-6
CAS-No.	: 7778-50-9
Product code	: 05354
Synonyms	: Potassium 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

Labogens Fine Chem Industries 1st Floor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com

1.4. Emergency telephone number

Emergency number

: +91 7707855700 (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		
Category 1			
Respiratory sensitisation,	H334		
Category 1			
Skin sensitisation,	H317		
Category 1			

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Germ cell mutagenicity, Category 1A	H340
Carcinogenicity, Category	H350
1A Reproductive toxicity,	H360FD
Category 1B	113001 D
Specific target organ	H335
toxicity — Single exposure, Category 3,	
Respiratory tract irritation	11070
Specific target organ toxicity — Repeated	H372
exposure, Category 1	11440
Hazardous to the aquatic environment — Chronic	H410
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.1; R45 Muta.Cat.1; R46 Repr.Cat.1; R60 Repr.Cat.1; 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 (E	C) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS03 GHS05 GHS06 GHS08 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	 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.
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	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)	 P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor P302+P352 - IF ON SKIN: Wash with plenty of water/ P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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	: POTASSIUM DICHROMATE EXTRA PURE		
CAS-No.	: 7778-50-9		
EC-No.	: 231-906-6		
EC Index-No.	: 024-002-00-6		

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

3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measu	res
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2. Most important symptoms and	d effects, both acute and delayed
Symptoms/effects	: Causes severe skin burns and eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause genetic defects. May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: Fatal if inhaled.
Symptoms/effects after skin contact	: Harmful in contact with skin.
Symptoms/effects after ingestion	: Toxic if swallowed.
Chronic symptoms	: May cause cancer.

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4.3. Indication of any immediate medical attention and special treatment needed			
Treat symptomatically.			
SECTION 5: Firefighting measures			
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 intensify fire; oxidiser.			
Explosion hazard : May cause fire or explosion; strong oxidiser.			
Reactivity in case of fire : Reacts with water (moisture): release of highly flammable gases/vapours (methane	;).		
5.3. Advice for firefighters			
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			
6.1.1. For non-emergency personnel			
Emergency procedures : Evacuate unnecessary personnel.			
Energency procedures . Evacuate unnecessary personner.			
6.1.2. For emergency responders			
Protective equipment : Use personal protective equipment as required.			
Emergency procedures : Stop release.			
6.2. Environmental precautions			
Toxic to aquatic life with long lasting effects.			
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			
Precautions for safe handling : Do not get in eyes, on skin, or on clothing.			
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and fac	e		
thoroughly after handling.			
7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions : Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture.			
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
No additional information available			

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8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a	
Physical state	: Solid
Molecular mass Colour	: 294.18 g/mol : Orange Crystalline.
Odour	: odourless.
Odour threshold	: No data available
рН	: 4.04 (1% aq, solution)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 398 °C
Freezing point	: No data available
Boiling point	: 500 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density Solubility	: 2.676 g/cm³ : Water: 6.5 % at 20°C
Log Pow	: 5
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity	
10.1. Reactivity	
May intensify fire; oxidiser.	
10.2. Chemical stability Stable under normal conditions.	
10.3. Possibility of hazardous reaction	IS
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Air contact. Moisture. Water,	, humidity.
10.5. Incompatible materials No additional information available	
10.6. Hazardous decomposition produ	icts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	cts
Acute toxicity	: Toxic if swallowed. Harmful in contact with skin. Fatal if inhaled.
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	pH: 4.04 (1% aq, solution) : Serious eye damage, category 1, implicit
	pH: 4.04 (1% aq, solution)
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.
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.

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12.2. Persistence and degradability

No additional information available

12.3.	Bioaccumulative potential	
ΡΟΤΑ	SSIUM DICHROMATE EXTRA PUR	E (7778-50-9)
Log P	ow	5

12.4. Mobility in soil

No additional information available

12.5.	Results of PBT and vPvB assessment
POT	ASSIUM DICHROMATE EXTRA PURE (7778-50-9)
This s	substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This s	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 Ecology - waste materials	 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Hazardous waste due to toxicity.
SECTION 14: Transport information	

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

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 (6.1), 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
Transport document description (ADN)	: 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

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14.3. Transport hazard class(es)	
ADR Transport hazard class(es) (ADR) Danger labels (ADR)	: 5.1 (6.1) : 5.1, 6.1
IMDG Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 5.1 (6.1) : 5.1, 6.1
IATA Transport hazard class(es) (IATA) Hazard labels (IATA)	: 5.1 (6.1) : 5.1, 6.1
ADN Transport hazard class(es) (ADN) Danger labels (ADN)	: 5.1 (6.1) : 5.1, 6.1
	5.1
RID Transport hazard class(es) (RID)	: 5.1 (6.1)
Danger labels (RID)	: 5.1, 6.1
14.4. Packing group	
Packing group (ADR) Packing group (IMDG)	: II : II
Packing group (IATA) Packing group (ADN)	: II : II
Packing group (RID)	: 11

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14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available
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)	: TP33
Tank code (ADR)	: SGAN
Tank special provisions (ADR)	: TU3
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Packages (ADR)	: V11
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV24, CV28
Hazard identification number (Kemler No.)	: 56
Orange plates	56 3087
Tunnel restriction code (ADR)	: E
EAC code	: 1W
- Transport by sea	
Special provisions (IMDG)	: 274, 900
Packing instructions (IMDG)	: P002
IBC packing instructions (IMDG)	: IBC06
IBC packing instructions (IMDG) IBC special provisions (IMDG)	: IBC06 : B21

: TP33 : F-A

: S-Q : B

: 141

: E2

: 1kg

: 558

: Y543

: SG38, SG49, SG60

care to minimize exposure, particularly to dust.

PCA Excepted quantities (IATA)

Tank special provisions (IMDG)

Properties and observations (IMDG)

Stowage category (IMDG) Segregation (IMDG)

EmS-No. (Fire) EmS-No. (Spillage)

MFAG-No

- Air transport

: Toxic if swallowed, by skin contact or by dust inhalation. Should be handled with

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,		
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
Excepted quantities (RID)	:	E2
Packing instructions (RID)	:	P002, IBC06
Mixed packing provisions (RID)	:	MP2
Portable tank and bulk container instructions (RID)	:	Т3
Portable tank and bulk container special provisions (RID)	:	TP33
Tank codes for RID tanks (RID)	:	SGAN
Special provisions for RID tanks (RID)	:	TU3
Transport category (RID)	:	2
Special provisions for carriage – Packages (RID)	:	W11
Special provisions for carriage - Loading, unloading and handling (RID)	:	CW24, CW28
Colis express (express parcels) (RID)	:	CE10
Hazard identification number (RID)	:	56

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

Potassium dichromate is on the REACH Candidate List

Potassium dichromate is on the REACH Annex XIV List:

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

15.1.2. National regulations

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Germany	
Reference to AwSV	: Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV; ID No. 339)
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	: POTASSIUM DICHROMATE EXTRA PURE is listed
SZW-lijst van mutagene stoffen	: POTASSIUM DICHROMATE EXTRA PURE is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: POTASSIUM DICHROMATE EXTRA PURE is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: POTASSIUM DICHROMATE EXTRA PURE is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: POTASSIUM DICHROMATE EXTRA PURE is listed
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

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

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.		

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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.	
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	
Т	Toxic	
T+	Very toxic	
Xn	Harmful	

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.