

CAS-No.: MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: I	dentification of the substa	nce/mixture and of the company/undertaking
1.1. Prod	uct identifier	
Product form		: Mixture
Product code		: 06527
1.2. Relev	vant identified uses of the	substance or mixture and uses advised against
1.2.1. Relev	vant identified uses	
Industrial/Prof	essional use spec	: Industrial For professional use only
	advised against nformation available	
1.3. Deta	ils of the supplier of the sa	ifety data sheet
1st Floor , Abo Ludhiana Pb. +91 93167777	e Chem Industries ove Bank of India, Guru Viha (141007) '75, +91 7707855700 'ns.comwww.Labogens.c	
1.4. Eme	rgency telephone number	
Emergency nu	mber	: +91 7707855700 (9:00am - 6:00 pm)
SECTION 2: H	lazards identification	
2.1. Class	sification of the substance	or mixture
Classification Carc.Cat.2; R4 Muta.Cat.2; R4 Repr.Cat.2; R6 Repr.Cat.2; R6 T; R25 Xn; R48/21/22 Xi; R36/38	45 46 60 61	/548/EEC [DSD] or 1999/45/EC [DPD]

N; R51/53 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

Labelling according to Directive 67/548/EEC or 1999/45/EC	
Hazard symbols	T - Toxic N -
	Dangerous for the environment
R-phrases	 R25 - Toxic if swallowed R36/38 - Irritating to eyes and skin R45 - May cause cancer R46 - May cause heritable genetic damage R48/21/22 - Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed R51/53 - 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
S-phrases	 S4 - Keep away from living quarters S24 - Avoid contact with skin S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S28 - After contact with skin, wash immediately with plenty of (to be specified by the manufacturer) S35 - This material and its container must be disposed of in a safe way S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection S38 - In case of insufficient ventilation, wear suitable respiratory equipment S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) S53 - Avoid exposure - obtain special instructions before use S57 - Use appropriate container to avoid environmental contamination S59 - Refer to manufacturer/supplier for information on recovery/recycling S60 - This material and its container must be disposed of as hazardous waste S61 - Avoid release to the environment. Refer to special instructions/safety data sheets

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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Name	Product identifier	%	Classification according to Directive 67/548/EEC	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Water	(CAS-No.) 7732-18- 5 (EC-No.) 231-791-2	75 - 99	Not classified	Not classified
mercury dichloride; mercuric chloride	(CAS-No.) 7487-94- 7 (EC-No.) 231-299-8 (EC Index-No.) 080- 010-00-X	5 - 10	Muta.Cat.3; R68 Repr.Cat.3; R62 T+; R28 T; R48/24/25 C; R34 N; R50/53	Acute Tox. 1 (Oral), H300 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 1, H372 Muta. 2, H341 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Sodiumsulfate	(CAS-No.) 7757-82- 6 (EC-No.) 231-820-9	1 - 5	Not classified	Not classified
Potassium dichromate substance listed as REACH Candidate substance listed in REACH Annex XIV	(CAS-No.) 7778-50- 9 (EC-No.) 231-906-6 (EC Index-No.) 024- 002-00-6	1 - 5	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	Acute Tox. 2 (Inhalation), H330 Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Aquatic Acute 1, H400

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

SECTION 4: First aid measures			
4.1. Description of first aid measu	res		
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.		
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	: Wash with plenty of water/ Wash contaminated clothing before reuse. If skin irritation 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. If eye irritation persists: Get medical advice/attention.		
First-aid measures after ingestion	: Fatal if swallowed. Rinse mouth. Immediately call a POISON CENTER/doctor. Specific treatment (see supplemental first aid instruction on this label).		
4.2. Most important symptoms and	d effects, both acute and delayed		
Symptoms/effects	 Causes severe skin burns and eye damage. Causes damage to organs through prolonged or repeated exposure. 		
Symptoms/effects after skin contact	: Fatal in contact with skin.		
Symptoms/effects after eye contact	: Causes serious eye irritation.		
Symptoms/effects after ingestion	: Fatal if swallowed.		
Chronic symptoms	: Suspected of damaging fertility.		

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

Treat symptomatically.

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5.1. Extinguishing media No additional information available 5.2. Special hazards arising from the substance or mixture No additional information available 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 : Avoid contact with skin, eyes and clothing. 6.1.2. For emergency responders Protective equipment : Use personal protective equipment as required. 6.2. Environmental precautions Very toxic to aquatic life with long lasting effects. 6.3. 6.3. Methods and material for containment and cleaning up Methods for cleaning up : Clean up immediately by sweeping or vacuum. 6.4. Reference to other sections No additional information available Sections			
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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 : Obtain special instructions before use. Do not handle until all safety precautions			
have been read and understood. Eliminate all ignition sources if safe to do so. Avoid breathing dust/fume/gas/mist/vapours/spray.			
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face			
thoroughly after handling.			
7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions : Store in a well-ventilated place. Keep cool.			
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/personal protection			
SECTION 6. Exposure controls/personal protection			

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	: Wear respiratory protection.		
SECTION 9: Physical and chemical prop			
9.1. Information on basic physical a Physical state	nd chemical properties : Liquid		
Colour	: Orange coloured solution.		
Odour	: No data available		
Odour threshold	: No data available		
рН	: No data available		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: No data available		
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		
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	: 1.056 g/cm³		
Solubility	: No data available		
Log Pow	: No data available		
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			
SECTION 10: Stability and reactivity			
10.1. Reactivity			
No additional information available			
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10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactio	ns
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Overheating.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition prod	ucts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	ects
Acute toxicity	: Toxic if swallowed.
Irritation	: Irritating to eyes and skin.
Corrosivity	: Not classified
Sensitisation	: Not classified
Repeated dose toxicity	: Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
Carcinogenicity	: May cause cancer.
Mutagenicity	: May cause heritable genetic damage.
Toxicity for reproduction	: May impair fertility. May cause harm to the unborn child.
Potential adverse human health effects	: Fatal if swallowed.
and symptoms	
SECTION 12: Ecological information	
12.1. Toxicity Ecology - water	: Toxic to aquatic life with long lasting effects.
Loology - walei	. י טאוב נט מקטמנוב וווב שונוי וטווץ ומשנוווץ בוובטנש.

12.2.	Persistence and degradability	
ZENKER'S FIXING FOR MICROSCOPY		
Persistence and degradability May cause long-term adverse effects in the environm		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

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12.5. Results of PBT and vPvB assessment

Component	
Potassium dichromate (7778-50-9)	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 effectsNo 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)	: 3287
UN-No. (IMDG)	: 3287
UN-No. (IATA)	: 3287
UN-No. (ADN)	: 3287
UN-No. (RID)	: 3287
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: TOXIC LIQUID, INORGANIC, N.O.S.
Proper Shipping Name (IMDG)	: TOXIC LIQUID, INORGANIC, N.O.S.
Proper Shipping Name (IATA)	: Toxic liquid, inorganic, n.o.s.
Proper Shipping Name (ADN)	: TOXIC LIQUID, INORGANIC, N.O.S.
Proper Shipping Name (RID)	: TOXIC LIQUID, INORGANIC, N.O.S.
Transport document description (ADR)	: UN 3287 TOXIC LIQUID, INORGANIC, N.O.S., 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 3287 TOXIC LIQUID, INORGANIC, N.O.S., 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 3287 Toxic liquid, inorganic, n.o.s., 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 3287 TOXIC LIQUID, INORGANIC, N.O.S., 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 3287 TOXIC LIQUID, INORGANIC, N.O.S., 6.1, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 6.1
Danger labels (ADR)	: 6.1



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Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 6.1 : 6.1
ΙΑΤΑ	
Transport hazard class(es) (IATA) Hazard labels (IATA)	: 6.1 : 6.1
ADN	
Transport hazard class(es) (ADN) Danger labels (ADN)	: 6.1 : 6.1
RID	: 6.1
Transport hazard class(es) (RID) Danger labels (RID)	: 6.1
14.4. Packing group	
Packing group (ADR) Packing group (IMDG)	: II : II
Packing group (IATA)	: 11
Packing group (ADN)	: II : II
Packing group (RID)	. "
14.5.Environmental hazardsDangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available
14.6. Special precautions for user	
- Overland transport	
Classification code (ADR)	: T4
Special provisions (ADR) Limited quantities (ADR)	: 274 : 100ml

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Excepted quantities (ADR)	: E4
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T11
Portable tank and bulk container special provisions (ADR)	: TP2, TP27
Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9, S19
Hazard identification number (Kemler No.)	: 60
Orange plates	[:] 60
	3287
Tunnel restriction code (ADR)	: D/E
EAC code	: 2X
APP code	: B
- Transport by sea	
Special provisions (IMDG)	: 274
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T11
Tank special provisions (IMDG)	: TP2, TP27
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: B
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Toxic if swallowed, by skin contact or by inhalation.
MFAG-No	: 151
- Air transport	
PCA Excepted quantities (IATA)	: E4
,	: E4 : Y641
PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA)	
PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA)	: Y641
PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA)	: Y641 : 1L
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PCA Limited quantities (IATA) PCA limited quantity max net quantity	: Y641 : 1L : 654 : 5L
PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA)	: Y641 : 1L : 654 : 5L : 662
PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA)	: Y641 : 1L : 654 : 5L : 662 : 60L
PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA)	 Y641 1L 654 5L 662 60L A3, A4, A137
PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA) - Inland waterway transport	 Y641 1L 654 5L 662 60L A3, A4, A137
PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA) CAO max net quantity (IATA) Special provisions (IATA) ERG code (IATA) - Inland waterway transport Classification code (ADN)	 Y641 1L 654 5L 662 60L A3, A4, A137 6L
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Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 2
- Rail transport	
Classification code (RID)	: T4
Special provisions (RID)	: 274
Excepted quantities (RID)	: E4
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container	: T11
instructions (RID)	
Portable tank and bulk container special provisions (RID)	: TP2, TP27
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE5
Hazard identification number (RID)	: 60

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

Contains no REACH substances with Annex XVII restrictions

Contains a substance on the REACH candidate list in concentration \geq 0.1% or with a lower specific limit: Potassium dichromate (EC 231-906-6, CAS 7778-50-9)

Contains REACH Annex XIV substances:

Substance name	Authorisation number	Sunset date	REACH authorisation exemptions
Potassium dichromate (EC 231-906-6, CAS 7778-50-9)		21/09/2017	

15.1.2. National regulations

Germany

Reference to AwSV	: Water hazard class (WGK) 3, severe hazard to water (Classification according to AwSV, Annex 1)
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 is listed
SZW-lijst van mutagene stoffen	: Potassium dichromate is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: Potassium dichromate is listed

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NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	mercury dichloride; mercuric chloride, Potassium dichromate are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	Potassium dichromate 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 (Oral)	Acute toxicity (oral), Category 1	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Muta. 2	Germ cell mutagenicity, Category 2	
Repr. 2	Reproductive toxicity, Category 2	
Skin Corr. 1B	Skin corrosion/irritation, Category 1B	
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1	
H300	Fatal if swallowed.	
H301	Toxic if swallowed.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H330	Fatal if inhaled.	
H341	Suspected of causing genetic defects.	
H361f	Suspected of damaging fertility.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H400	Very toxic to aquatic life.	
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	
R28	Very toxic if swallowed	
R34	Causes burns	
R36/38	Irritating to eyes and skin	
R42	May cause sensitization by inhalation	
R43	May cause sensitisation by skin contact	
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R45	May cause cancer
R46	May cause heritable genetic damage
R48/21/22	Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation
R48/24/25	Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	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
R62	Possible risk of impaired fertility
R68	Possible risk of irreversible effects
R8	Contact with combustible material may cause fire
С	Corrosive
N	Dangerous for the environment
0	Oxidising
Т	Toxic
T+	Very toxic
Xi	Irritant
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