AMMONIUM DICHROMATE EXTRA PURE MSDS



CAS No: 7789-09-5 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

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

4.4 Decident identifi	
1.1. Product identified	
Product form	: Substance
Trade name	: Ammonium Dichromate
EC no	: 232-143-1
CAS No	: 7789-09-5
Product code	: 01160
Formula	: H8Cr2N2O7
Chemical structure	$(NH_4)_2Cr_2O_7$
Synonyms	: Ammonium bichromate
1.2. Relevant identif	fied uses of the substance or mixture and uses advised against
1.2.1. Relevant identif	ïed uses
Use of the substance/mixed	ture : Laboratory chemicals, Manufacture of substances
1.2.2. Uses advised ag	gainst
No additional information	-
1.3. Details of the su	upplier of the safety data sheet
Labogens Fine Chem Inde	
	India, Guru Vihar , Rahon Road,
Ludhiana Pb. (141007)	
+91 9316777775, +91 770	
sales@labogens.com -	www.Labogens.com
1.4. Emergency tele	nhono numbor
	-
Emergency number	: +91 7707855700 (9:00am - 6:00 pm)
SECTION 2: Hazards ide	entification
2.1. Classification o	f the substance or mixture
Classification according	g to Regulation (EC) No. 1272/2008 [CLP]
Oxidising Solids, Category 2	H272
Acute toxicity (oral), Category 3	H301
Acute toxicity (dermal), Category 4	H312
Acute toxicity (inhal.), Category 2	H330
Skin corrosion/irritation, Category 1A	H314
Sensitisation — Respiratory, category 1A	H334
Sensitisation — Skin,	H317

category 1 www.Labogens.com

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Germ cell mutagenicity, H340 Category 1A Carcinogenicity, Category H350 1A Reproductive toxicity, H360FD Category 1A Specific target organ H372 toxicity — Repeated exposure, Category 1 Hazardous to the aquatic environment — Chronic Hazard, Category 1

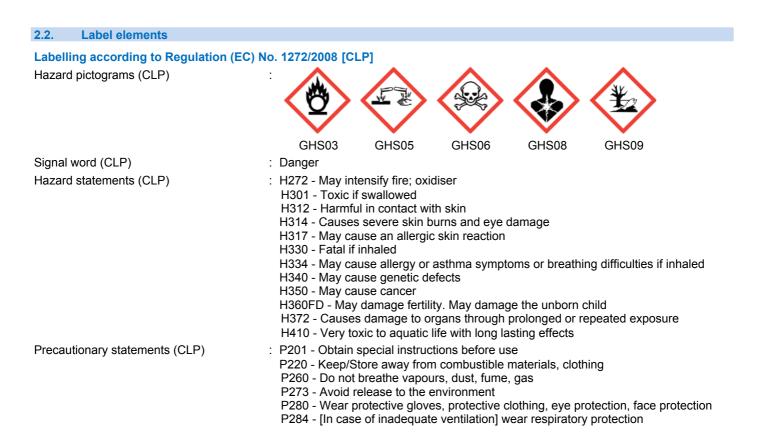
Full text of classification categories and H statements : see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

E; T+; N; R21-23-25-26-34-42-43-45-46-48-50-53-60-61-8 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available



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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. Substance			
Name	: AMMONIUM DICHROMATE Extra Pure		
CAS No	: 7789-09-5		
EC no	: 232-143-1		

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

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measu	res
First-aid measures after inhalation	: Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Get immediate medical advice/attention. Wash with plenty of soap and water. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Obtain emergency medical attention.
4.2. Most important symptoms an	d effects, both acute and delayed
Symptoms/injuries	 Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes damage to organs through prolonged or repeated exposure. May cause genetic defects.
Symptoms/injuries after inhalation	: Fatal if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/injuries after skin contact	: Harmful in contact with skin.
Symptoms/injuries after ingestion	: Toxic if swallowed.
Chronic symptoms	: May cause cancer. May damage fertility. May damage the unborn child.
4.3. Indication of any immediate m	nedical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
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	: Explosive.
Reactivity in case of fire	 on exposure to water (moisture): release of highly flammable gases/vapours (hydrogen).
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case of fire

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5.3. Advice for firefighters	
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measure	es
6.1. Personal precautions, protectiv	ve equipment and emergency procedures
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	: Ventilate area.
6.2. Environmental precautions	
Very toxic to aquatic life with long lasting e	effects.
6.3. Methods and material for conta	inment and cleaning up
Methods for cleaning up	 Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. On land, sweep or shovel into suitable containers.
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	: Avoid contact with skin and eyes. Do not breathe vapours. Avoid dust formation.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
Incompatible products	: Oxidizing agent.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/persona	al protection
8.1. Control parameters	

No additional information available

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	perties			
9.1. Information on basic physical a				
Physical state	: Solid			
Colour	: Orange to red.			
Odour	: odourless.			
Odour threshold	: No data available			
рН	: 3 - 4			
Relative evaporation rate (butylacetate=1)	: No data available			
Melting point	: 170 °C			
Freezing point	: No data available			
Boiling point	: No data available			
Flash point	: No data available			
Auto-ignition temperature	: 218 °C			
Decomposition temperature	: 170 °C			
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	: 2.15 g/cm ³			
Solubility	: Water: 360 g/l (20°C)			
Log Pow	: No data available			
Viscosity, kinematic	: No data available			
Viscosity, dynamic	: No data available			
Explosive properties	: No data available			
Oxidising properties	: The substance or mixture is classified as oxidizing with the subcategory 2.			
Explosive limits	: No data available			
9.2.Other informationNo additional information availableSECTION 10: Stability and reactivity10.1.Reactivity				
No additional information available				

10.2. Chemical stability			
Stable under normal conditions.			
10.3. Possibility of hazardous reaction	10.3. Possibility of hazardous reactions		
No additional information available			
10.4. Conditions to avoid			
Do not allow water (or moist air) contact with	this material. Avoid formation of vapours. Avoid dust formation.		
10.5. Incompatible materials			
Oxidizing agent.			
10.6. Hazardous decomposition produ	cts		
No additional information available			
SECTION 11: Toxicological information			
11.1. Information on toxicological effect	cts		
-	: Oral: Toxic if swallowed. Dermal: Harmful in contact with skin. Inhalation: Fatal if inhaled.		
Skin corrosion/irritation	: Causes severe skin burns and eye damage.		
Serious eye damage/irritation	pH: 3 - 4 : Serious eye damage, category 1, implicit		
Schous eye damage/imation	pH: 3 - 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.		
Carcinogenicity	: May cause cancer.		
Reproductive toxicity	: May damage fertility. May damage the unborn child.		
Specific target organ toxicity (single exposure)	: Not classified		
Specific target organ toxicity (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			
	: Very toxic to aquatic life.		

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12.2. Persistence and degradability

No additional information available

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

Ammonium Dichromate (7789-09-5)		
	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	
Ecology - waste materials	: Hazardous waste due to toxicity.	
SECTION 14: Transport information		

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

14.1. UN number	
UN-No. (ADR)	: 1439
UN-No. (IMDG)	: 1439
UN-No.(IATA)	: 1439
UN-No.(ADN)	: 1439
UN-No. (RID)	: Not regulated
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: AMMONIUM DICHROMATE
Proper Shipping Name (IMDG)	: AMMONIUM DICHROMATE
Proper Shipping Name (IATA)	: AMMONIUM DICHROMATE
Proper Shipping Name (ADN)	: AMMONIUM DICHROMATE
Proper Shipping Name (RID)	: Not regulated
Transport document description (ADR)	: UN 1439 AMMONIUM DICHROMATE, 5.1, II, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 1439 AMMONIUM DICHROMATE, 5.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 1439 AMMONIUM DICHROMATE, 5.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 1439 AMMONIUM DICHROMATE, 5.1, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 5.1

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Danger labels (ADR)	: 5.1
	5.1
	\checkmark \checkmark
IMDG	
Transport hazard class(es) (IMDG)	: 5.1
Danger labels (IMDG)	: 5.1
	5.1
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IATA Transport hazard class(es) (IATA)	: 5.1
Hazard labels (IATA)	: 5.1
Tiazaru labels (IATA)	
	5.1
ADN	
Transport hazard class(es) (ADN)	: 5.1
Danger labels (ADN)	: 5.1
	5.1
RID	
Transport hazard class(es) (RID)	: Not regulated
44.4 Decking many	
14.4. Packing group	: 11
Packing group (ADR) Packing group (IMDG)	: II : II
Packing group (IATA)	: II
Packing group (ADN)	: II
Packing group (RID)	: Not regulated
	· ····································
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)	: O2

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Limited quantities (ADR)	:	1kg
Excepted quantities (ADR)	:	E2
Packing instructions (ADR)	:	P002, IBC08
Special packing provisions (ADR)	:	B4
Mixed packing provisions (ADR)	:	MP2
Portable tank and bulk container instructions (ADR)	:	Т3
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
Hazard identification number (Kemler No.)	:	50
Orange plates	:	50
		1439
Tunnel restriction code (ADR)	:	E
EAC code	:	1Y
T		
- Transport by sea		
Limited quantities (IMDG)	:	1 kg
Excepted quantities (IMDG)		E2
Packing instructions (IMDG)		P002
IBC packing instructions (IMDG)		IBC08
IBC special provisions (IMDG)		B2, B4
Tank instructions (IMDG)	-	Т3
Tank special provisions (IMDG)	:	TP33
EmS-No. (Fire)		F-H
EmS-No. (Spillage)		S-Q
Stowage category (IMDG)		A
Segregation (IMDG)		SG35
MFAG-No	:	141
- Air transport		
PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y544
PCA limited quantity max net quantity (IATA)	:	2.5kg
PCA packing instructions (IATA)	:	558
PCA max net quantity (IATA)	:	5kg
CAO packing instructions (IATA)		562
CAO max net quantity (IATA)		25kg
ERG code (IATA)		5L
	•	
- Inland waterway transport		
Classification code (ADN)		02
Limited quantities (ADN)		1 kg
Excepted quantities (ADN)	-	E2
Equipment required (ADN)	-	PP
Number of blue cones/lights (ADN)	:	0
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- Rail transport

Not regulated

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

Ammonium dichromate is on the REACH Candidate List

Ammonium dichromate is on the REACH Annex XIV List:

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

15.1.2. National regulations

Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 3, strongly hazardous to water (KBwS-Beschluss; WGK No 290)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

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-phrases:

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 Chronic 1	Hazardous to the aquatic environment	- Chronic Hazard, Category 1	
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Carc. 1A	Carcinogenicity, Category 1A		
Muta. 1A	Germ cell mutagenicity, Category 1A		
Ox. Sol. 2	Oxidising Solids, Category 2		
Repr. 1A	Reproductive toxicity, Category 1A		
Resp. Sens. 1A	Sensitisation — Respiratory, category 1A		
Skin Corr. 1A	Skin corrosion/irritation, Category 1A		
Skin Sens. 1	Sensitisation — Skin, category 1		
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1		
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		
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		
E	Explosive		

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