NINHYDRIN AR/ACS MSDS

CAS No: 485-47-2 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
	:
CAS No	: 485-47-2
Product code	: 04912
Chemical structure	: O
	OH OH
Synonyms	: 1,2,3-Indantrione / 2,2-Dihydroxy-1,3-indanedione / Trioxohydrindene
1.2. Relevant identified uses of the s	substance or mixture and uses advised against

- 1.2.1. Relevant identified uses
- Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

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]

Acute toxicity (oral),	H302
Category 4	
Serious eye damage/eye	H319
irritation, Category 2	
Skin corrosion/irritation,	H315
Category 2	
Specific target organ	H335
toxicity — Single	
exposure, Category 3,	
Respiratory tract irritation	

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

Classification according to Directive 67/548/EEC or 1999/45/EC Xn; R22 Xi; R36/37/38 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)	lo. 1272/2008 [CLP]
Hazard pictograms (CLP)	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	 H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H335 - May cause respiratory irritation
Precautionary statements (CLP)	 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1.	Substance	
Name		: NINHYDRIN AR/ACS
CAS No	D	: 485-47-2

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

3.2. Mixture

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures	3
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see 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	: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Harmful if swallowed.
-	lical 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.
	. Do not use a neavy water stream.
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
5.3. Advice for firefighters Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
Protection during firefighting SECTION 6: Accidental release measures	δ
Protection during firefighting SECTION 6: Accidental release measures 6.1. Personal precautions, protective	
Protection during firefighting SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel	equipment and emergency procedures
Protection during firefighting SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures	δ
Protection during firefightingSECTION 6: Accidental release measures6.1.Personal precautions, protective6.1.1.For non-emergency personnelEmergency procedures6.1.2.For emergency responders	e equipment and emergency procedures : Evacuate unnecessary personnel.
 Protection during firefighting SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment 	 equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required.
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 Protection during firefighting SECTION 6: Accidental release measures 6.1. Personal precautions, protective 6.1.1. For non-emergency personnel Emergency procedures 6.1.2. For emergency responders Protective equipment Emergency procedures 6.2. Environmental precautions Avoid release to the environment. 6.3. Methods and material for contain Methods for cleaning up 6.4. Reference to other sections No additional information available SECTION 7: Handling and storage 7.1. Precautions for safe handling 	 equipment and emergency procedures Evacuate unnecessary personnel. Use personal protective equipment as required. Ventilate area. ment and cleaning up Clean up immediately by sweeping or vacuum. : Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-

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7.2.	2.2. Conditions for safe storage, including any incompatibilities	
Storage	e conditions	: Keep container tightly closed. Store in original container. Store in a dry place.
7.3.	Specific end use(s)	
No add	itional information available	

SECTION 8: Exposure controls/personal 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	erties
9.1. Information on basic physical a	nd chemical properties
Physical state	: Solid
Colour	: White to pale yellow.
Odour	: odourless.
Odour threshold	: No data available
рН	: 4.6 - 5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 250 °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
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 6.16
Relative density	: No data available
Density Solubility	: 0.86 g/cm³ : Water: Soluble in water

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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 addit	ional information available
SECTIO	N 10: Stability and reactivity
10.1.	Reactivity
No addit	ional information available
10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
No addit	ional information available
10.4.	Conditions to avoid
Direct su	unlight. Air contact. Moisture.
10.5.	Incompatible materials
No addit	ional information available
10.6.	Hazardous decomposition products
No addit	ional information available

SECTION 11: Toxicological information

11.1. Information on toxicological e	ffects
Acute toxicity	: Oral: Harmful if swallowed.
Skin corrosion/irritation	: Causes skin irritation. pH: 4.6 - 5
Serious eye damage/irritation	· Causes serious eye irritation. pH: 4.6 - 5
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified

Aspiration hazard	: Not classified
Potential adverse human health effect and symptoms	s : Harmful if swallowed.
SECTION 12: Ecological information	
12.1. Toxicity	
No additional information available	
12.2. Persistence and degradabil	ity
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 as	sessment
No additional information available	
12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal consideratio	ns
I3.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container to
SECTION 14: Transport information	
n accordance with ADR / RID / IMDG	/ IATA / ADN
I4.1. UN number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No.(IATA)	: Not applicable
UN-No.(ADN) UN-No. (RID)	: Not applicable : Not applicable
14.2. UN proper shipping name	
	: Not applicable
Proper Shipping Name (ADR) Proper Shipping Name (IMDG)	: Not applicable : Not applicable

: Not applicable

: Not applicable : Not applicable

Proper Shipping Name (IATA)

Proper Shipping Name (ADN)

Proper Shipping Name (RID)

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14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
	. Not applicable
ΙΑΤΑ	
	NU CARANTER DE
Transport hazard class(es) (IATA)	: Not applicable
ADN	
Transport hazard class(es) (ADN)	: Not applicable
RID	
Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available
14.6. Special precautions for user	

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

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

NINHYDRIN AR/ACS is not on the REACH Candidate List

NINHYDRIN AR/ACS is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance) Immission Control Act - 12.BImSchV

Denmark

Recommendations Danish Regulation

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

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
R22	Harmful if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
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