

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAł 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)

MALEIC ANHYDRIDE LR

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier	
Trade name	: MALEIC ANHYDRIDE LR
Product code	: M0128305000
Identification of the product	: Maleic anhydride CAS No: 108-31-6 EC No :203-571-6 Annex No :607-096-00-9
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against
Use	: Industrial. For professional use only.
1.3. Details of the supplier of the safe	ety data sheet
Company identification	SUVCHEM Chaitanya Tower, 2nd Floor, Office # 206, Siddharth Nagar, S.V. Road, Goregaon (West), Mumbai - 400062,
	Maharashtra, India. Contact: +91 22 28725393 / 94 / 95
1.4. Emergency telephone number	Email ID: info@suvchem.com/care@suvchem.com
Phone no.	: + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification	: Xn; R22
	C; R34
	Xn ; R42/43

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards: Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314
Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318
Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302
Respiratory sensitization - Category 1 - Danger (CLP : Resp. Sens. 1) H334

2.2. Label elements



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2. Hazards identification -DSD (continued)

Labelling EC 67/548 or EC 1999/45

Symbol(s)



Symbol(s)	: C : Corrosive
R Phrase(s)	: R22 : Harmful if swallowed. R34 : Causes burns. R42/43 : May cause sensitization by inhalation and skin contact.
S Phrase(s)	 S2 : Keep out of the reach of children. S22 : Do not breathe dust. S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection. S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
Contains	: Maleic anhydride
Labelling Regulation EC 1272/2008 (C	<u>LP)</u>
Hazard pictograms	
Signal words	: Danger
Hazard statements	 H314 : Causes severe skin burns and eye damage. H302 : Harmful if swallowed. H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 : May cause an allergic skin reaction.
Precautionary statements	
• General	: P102: Keep out of reach of children. P103: Read label before use. P101: If medical advice is needed, have product container or label at hand.
Prevention	 P285: In case of inadequate ventilation wear respiratory protection. P280: Wear protective gloves, protective clothing, eye protection, face protection. P260: Do not breathe dust, fume, gas, mist, vapours, spray. P264: Wash thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P272: Contaminated work clothing should not be allowed out of the workplace.
• Response	: P302+P352: IF ON SKIN : Wash with plenty of soap and water. P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting. 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+P341: IF INHALED : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.



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2. Hazards identification -DSD (continued)			
	P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower. P333+P313: If skin irritation or rash occurs : Get medical advice. P342+P311: If experiencing respiratory symptoms : Call a POISON CENTER or doctor. P363: Wash contaminated clothing before reuse.		
Storage	: P405: Store locked up.		
 Disposal considerations 	: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.		
Contains	: Maleic anhydride		
2.3. Other hazards			
Other hazards	: The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.		

3. Composition/information on ingredients						
Substance / Preparation	: Ma	: Maleic anhydride				
	An	No :203-571 nex No :607-0 bstance.	-			
Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Maleic anhydride	100 %	108-31-6	203-571-6	607-096-00-9		Xn; R22 C; R34 R42/43

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures	
4.1. Description of first aid	measures
Inhalation	: If experiencing respiratory symptoms : Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	: Immediately call a POISON CENTER or doctor. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs : Specific treatment (see on this label). Get medical advice. Remove/Take off immediately all contaminated clothing.
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 or doctor.



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4. First aid measures (continued)				
Ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.			
4.2. Most important symptoms and e	effects, both acute and delayed			
Symptoms relating to use	 Causes severe skin burns and eye damage. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. Swallowing a small quantity of this material will result in serious health hazard. 			
4.3. Indication of any immediate medical attention and special treatment needed				
General information	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).			
5. Fire-fighting measures				
5.1. Extinguishing media				
Suitable extinguishing media Unsuitable extinguishing media Surrounding fires	: Foam. Dry powder. Carbon dioxide. Water spray. Sand. : Do not use a heavy water stream. : Use water spray or fog for cooling exposed containers.			
5.2. Special hazards arising from the	e substance or mixture			
Hazardous combustion products	: Under fire conditions, hazardous fumes will be present. Thermal decomposition generates : Corrosive vapours.			
5.3. Advice for fire-fighters				
Protection against fire	: Do not enter fire area without proper protective equipment, including respiratory			

 Special procedures
 protection.

 Special procedures
 : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders	: Equip cleanup crew with proper protection. Ventilate area.
For non-emergency personnel	: Evacuate unnecessary personnel.



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6. Accidental release measures (continued)

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling	: Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace.
Technical protective measures	: Provide good ventilation in process area to prevent formation of vapour.
7.2. Conditions for safe storage, inclue	ding any incompatibilities
Storage	: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Storage regulation	: Comply with applicable regulations.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.
7.3. Specific end use(s)	
Specific end use(s)	: None.

8. Exposure controls/personal protection

8.1. Exposure controls	
Personal protection	: Avoid all unnecessary exposure.
 Respiratory protection 	: In case of inadequate ventilation wear respiratory protection.
 Hand protection 	: Wear protective gloves.

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8. Exposure controls/personal protection (continued) • Skin protection : Wear suitable protective clothing.

- Eye protection : Wear suitable protective clothing. • Eye protection : Chemical goggles or face shield.
- Others : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Solid.
Colour	: White crystals
Odour	: Sharp irritating acrid odor
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: 530C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: 4770C
Flammability (solid, gas)	: N/A
Flash point [°C]	: 1020C
Boiling point [°C]	: 2020C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	:0.16 mm Hg @ 200C
Vapour pressure mm/Hg	:0.16 mm Hg @ 200C
Vapour density	: 3,38
Density [g/cm3]	: 1,48
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: 16.3 g/100ml water @
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm2/s]	: N/A

9.2. Other information



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9. Physical and chemical properties (continued)			
Explosive properties Explosion limits - upper [%] Explosion limits - lower [%] Oxidising properties	: N/A : N/A : N/A : No data available.		
10. Stability and reactivity			
10.1. Reactivity			
Reactivity	: Not established.		
10.2. Chemical stability			
Chemical stability	: Stable under recommended storage conditions.		
10.3. Possibility of hazardous reactions			
Hazardous reactions	: Not established.		
10.4. Conditions to avoid			
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.		
10.5. Incompatible materials			
Materials to avoid	: Strong acids. Strong bases.		
10.6. Hazardous decomposition products			
Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.		

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity	
 Inhalation 	: Based on available data, the classification criteria are not met.
Dermal	: Based on available data, the classification criteria are not met.
 Ingestion 	: Harmful if swallowed.
Corrosion	: Causes severe skin burns and eye damage. Causes serious eye damage.



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11. Toxicological information (continued)

Irritation	: Based on available data, the classification criteria are not met.
Sensitization	 May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Mutagenicity	: Based on available data, the classification criteria are not met.
Carcinogenicity	: Based on available data, the classification criteria are not met.
Toxic for reproduction	: Based on available data, the classification criteria are not met.
STOT-single exposure	: Based on available data, the classification criteria are not met.
STOT-repeated exposure	: Based on available data, the classification criteria are not met.
Aspiration hazard	: Based on available data, the classification criteria are not met.

12. Ecological information

<u>12.1. Toxicity</u>	
Toxicity information	: Not established.
<u>12.2. Persistence - degradability</u>	
Persistence - degradability	: Biodegradable.
12.3. Bioaccumulative potential	
Bioaccumulative potential	: Not established.
<u>12.4. Mobility in soil</u>	
Mobility in soil	: Not established.
12.5. Results of PBT and vPvB assessment	
Results of PBT and vPvB assessmer	nt : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.
12.6. Other adverse effects	
Environmental precautions	: Avoid release to the environment.
13. Disposal considerations	
13.1. Waste treatment methods	
General	: Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection



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13. Disposal considerations (continued)

point, in accordance with local, regional, national and/or international regulation.

14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name	
UN N°	
H.I. nr	
ADR - Class	
Labelling - Transport	

: MALEIC ANHYDRIDE

: 2215

: 80

: 8

: C4 : III

: 8 : Corrosive substance.



: P002 R001 : 5 KG

ADR - Classification code	
ADR - Group	
ADR - Packing instructions	
ADR - Limited Quantity	
ADR - Tunnel code	

: E : Passage forbidden through tunnels of category E.



14.2. Sea transport (IMDG) [English only]

Proper shipping name UN N° IMO-IMDG - Class or division IMO-IMDG - Packing group IMO- IMDG - Packing instructions IMO-IMDG - Limited quantities IMO-IMDG - Marine pollution	: MALEIC ANHYDRIDE : 2215 : 8 : Corrosive substance. : III : P002 : 5 kg : No
EMS-Nr	: F-A S-B

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name	: MALEIC ANHYDRIDE
UN N°	: 2215



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14. Transport information (continued)

IATA - Class or division	: 8 : Corrosive substance.
IATA - Packing group	: 111
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 860
- Passenger and Cargo - Maximum Quantity/Packing	: 25 kg
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 864
- Cargo only - Maximum Quantity/ Packing	: 100 kg
IATA - Limited Quantites	: 5 kg
ERG-Nr	: 8L

15. Regulatory information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture	: Ensure all national/local regulations are observed. e
REACH Restrictions - Annex XVII	: The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV	: The components of this product are not subject to authorization.
15.2. Chemical Safety Assessment	
Chemical Safety Assessment	: It has not been carried out.
16. Other information	
Revision	: Revision - See : *
Abbreviations and acronyms	: PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
List of relevant R phrases (heading 3)) : R22 : Harmful if swallowed. R34 : Causes burns. R42/43 : May cause sensitization by inhalation and skin contact.
List of full text of H-statements in section 3	 : H302 : Harmful if swallowed. H314 : Causes severe skin burns and eye damage. H317 : May cause an allergic skin reaction. H318 : Causes serious eye damage.

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In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

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- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
- SUVCHEM provides the information contained herein in good faith but makes no representation as to its
 comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of
 the material by a properly trained person using this product.

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