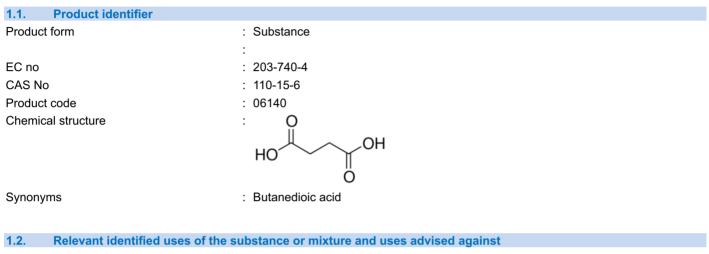
CAS No: 110-15-6 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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



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

SPAN LAB UNIT NO. 14,SKY INDUSTRIAL ESTATE,WALIV, VASAI (E) 401208 Mumbai - INDIA PH: +91 9820509929 info@spanlab.in www.spanlab.in

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Serious eye damage/eye H318 irritation, Category 1 Skin corrosion/irritation, H315 Category 2 Specific target organ H335 toxicity — Single exposure, Category 3, Respiratory tract irritation

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

Safety Data Sheet

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

Xi; R41 Xi; R37/38 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)	No. 1272/2008 [CLP]
Hazard pictograms (CLP)	: GHS05
Signal word (CLP)	: Danger
Hazard statements (CLP)	 H315 - Causes skin irritation H318 - Causes serious eye damage H335 - May cause respiratory irritation
Precautionary statements (CLP)	 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray P280 - Wear protective gloves/protective clothing/eye protection/face protection 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		: SUCCINIC ACID FOR SYNTHESIS	
CAS N	0	: 110-15-6	
EC no		: 203-740-4	

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

3.2. Mixture

Not applicable

Safety Data Sheet

SECTION 4: First aid measures

4.1. First-aid		
First-aid	Description of first aid measures	;
i not ala	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. Immediately call a POISON CENTER or doctor/physician.
First-aid	measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.
4.2.	Most important symptoms and e	ffects, both acute and delayed
Sympton	ns/injuries after inhalation	: May cause respiratory irritation.
Sympton	ns/injuries after skin contact	: Causes skin irritation.
Sympton	ms/injuries after eye contact	: Causes serious eye damage.
4.3.	Indication of any immediate med	lical attention and special treatment needed
Treat sy	mptomatically.	
SECTIC	N 5: Firefighting measures	
5.1.	Extinguishing modia	
	Extinguishing media extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
	ble extinguishing media	: Do not use a heavy water stream.
Unsultai		. Do not use a neavy water stream.
5.2.	Special hazards arising from the	substance or mixture
No addi	tional information available	
5.3.	Advice for firefighters	
Protection	on during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTIC	N 6: Accidental release measures	3
6.1.	Personal precautions, protective	equipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerge	ncy procedures	: Evacuate unnecessary personnel.
0		
C 4 0	E	
6.1.2.	For emergency responders	
Protectiv	ve equipment	: Use personal protective equipment as required.
Protectiv		Use personal protective equipment as required.Stop release.
Protectiv	ve equipment	
Protectiv Emerge	ve equipment ncy procedures	
Protectiv Emerge	ve equipment ncy procedures Environmental precautions	: Stop release.
Protectiv Emerge 6.2. Avoid re 6.3.	ve equipment ncy procedures Environmental precautions lease to the environment.	: Stop release.
Protectiv Emerge 6.2. Avoid re 6.3. Methods	ve equipment ncy procedures Environmental precautions lease to the environment. Methods and material for contain s for cleaning up	: Stop release.
Protectiv Emerge 6.2. Avoid re 6.3. Methods 6.4.	ve equipment ncy procedures Environmental precautions lease to the environment. Methods and material for contain s for cleaning up Reference to other sections	: Stop release.
Protectiv Emerge 6.2. Avoid re 6.3. Methods 6.4. No addi	ve equipment ncy procedures Environmental precautions elease to the environment. Methods and material for contain s for cleaning up Reference to other sections tional information available	: Stop release.
Protectiv Emerge 6.2. Avoid re 6.3. Methods 6.4. No addi	ve equipment ncy procedures Environmental precautions lease to the environment. Methods and material for contain s for cleaning up Reference to other sections	: Stop release.
Protectiv Emerge 6.2. Avoid re 6.3. Methods 6.4. No addi SECTIO 7.1.	ve equipment ncy procedures Environmental precautions lease to the environment. Methods and material for contain s for cleaning up Reference to other sections tional information available DN 7: Handling and storage Precautions for safe handling	: Stop release. ment and cleaning up : Clear up rapidly by scoop or vacuum.
Protectiv Emerge 6.2. Avoid re 6.3. Methods 6.4. No addi SECTIO 7.1.	ve equipment ncy procedures Environmental precautions elease to the environment. Methods and material for contain s for cleaning up Reference to other sections tional information available N 7: Handling and storage	: Stop release.

Safety Data Sheet

7.2.	Conditions for safe storage, ir	ncluding any incompatibilities
Storag	e conditions	: Keep container tightly closed. Store in original container. Store in a dry place. Protect from moisture.
7.3.	Specific end use(s)	
No ado	litional information available	
SECTI	ON 8: Exposure controls/person	hal protection
8.1.	Control parameters	
	litional 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	nd chemical properties
Physical state	: Solid
Molecular mass	: 118.09 g/mol
Colour	: White crystalline.
Odour	: odourless.
Odour threshold	: No data available
рН	: 2.7
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 184 - 186
Freezing point	: No data available
Boiling point	: 235 °C
Flash point	: 160 °C
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	: 1.56 g/cm ³

Safety Data Sheet

Safety Data Sheet	
Solubility	: Water: Partially soluble in water
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	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous react	ions
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Air contact. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition pro	oducts
No additional information available	
CECTION 44. Toulogia visal information	
SECTION 11: Toxicological information	
11.1. Information on toxicological e Acute toxicity	: Not classified
Add toxicity	
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	pH: 2.7 : Causes serious eye damage.
	pH: 2.7
Respiratory or skin sensitisation Germ cell mutagenicity	: Not classified : Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated	: Not classified
exposure)	
www.epepleh.in	00/04/2015 5/9

Safety Data Sheet

Aspiration hazard

: Not classified

SECTION 12: Ecological informatio	n	
12.1. Toxicity		
No additional information available		
12.2. Persistence and degradabi	lity	
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 a	ssessment	
No additional information available		
12.6. Other adverse effects		
No additional information available		
SECTION 13: Disposal consideration	ns	
13.1. Waste treatment methods		
No additional information available		
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG		
14.1. UN number		
UN-No. (ADR) UN-No. (IMDG)	: Not applicable : Not applicable	
UN-No. (IMDG) UN-No.(IATA)	: Not applicable	
UN-No.(ADN)	: Not applicable	
UN-No. (RID)	: Not applicable	
14.2. UN proper shipping name		
Proper Shipping Name (ADR)	: Not applicable	
Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	: Not applicable : Not applicable	
Proper Shipping Name (IATA) Proper Shipping Name (ADN)	: Not applicable	

: Not applicable

Proper Shipping Name (RID)

Safety Data Sheet

14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: Not applicable
IMDG	
Transport hazard class(es) (IMDG)	: Not applicable
IATA	
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

SUCCINIC ACID FOR SYNTHESIS is not on the REACH Candidate List

SUCCINIC ACID FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

Germany	
AwSV/VwVwS Annex reference	: Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 476)
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

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
R37/38	Irritating to respiratory system and skin
R41	Risk of serious damage to eyes
Xi	Irritant

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