

CAS-No.: 101-83-7 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
		:
EC Ind	lex-No.	: 612-066-00-3
EC-No).	: 202-980-7
CAS-N	lo.	: 101-83-7
Produc	ct code	: 03321
Formu	la	: C12H23N
Chemi	cal structure	

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Industrial/Professional use spec

: Industrial For professional use only

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]

Acute toxicity (oral),H302Category 4Skin corrosion/irritation,H314Category 1BHazardous to the aquaticH410environment — ChronicHazard, Category 1

Full text of H statements : see section 16

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3.2. Mixtures

Not applicable

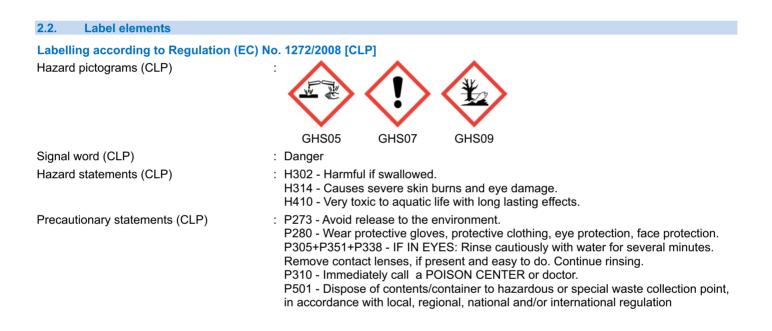
SECTIO	N 4: First aid measures	
4.1.	Description of first aid measures	
	measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a
Filst-aiu		POISON CENTER/doctor.
First-aid	measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.
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/doctor.
First-aid	measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
4.2.	Most important symptoms and e	ffects, both acute and delayed
Symptor	ns/effects	: Causes severe skin burns and eye damage.
Symptor	ns/effects after ingestion	: Harmful if swallowed.
4.3.	Indication of any immediate med	ical attention and special treatment needed
Treat sy	mptomatically.	
SECTIO	N 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitat	ble extinguishing media	: Do not use a heavy water stream.
5.2.	Special hazards arising from the	substance or mixture
No addit	ional information available	
5.3.	Advice for firefighters	
	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory
		protection.
SECTIO	N 6: Accidental release measures	
6.1.	Personal precautions, protective	equipment and emergency procedures
6.1.1.	For non-emergency personnel	
	ncy procedures	: Evacuate unnecessary personnel.
-		
	For emergency responders	
	ve equipment	: Use personal protective equipment as required.
Emerger	ncy procedures	: Ventilate area.
6.2.	Environmental precautions	
Very toxic to aquatic life with long lasting effects.		
6.3.	Methods and material for contain	nment and cleaning up
Methods	for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers.
6.4.	Reference to other sections	
No addit	ional information available	
SECTIO	N 7: Handling and storage	
7.1.	Precautions for safe handling	
	ons for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation
	Ŭ	in process area to prevent formation of vapour.

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Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R22 C; R34 N; R50/53 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects No additional information available



2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances	
Name	: DICYCLOHEXYLAMINE FOR SYNTHESIS
CAS-No.	: 101-83-7
EC-No.	: 202-980-7
EC Index-No.	: 612-066-00-3

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

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3.2. Mixtures

Not applicable

SECTIO	N 4: First aid measures	
4.1.	Description of first aid measures	
	measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a
Filst-aiu		POISON CENTER/doctor.
First-aid	measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.
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5.1.	Extinguishing media	
Suitable	extinguishing media	: Carbon dioxide. Dry powder. Foam. Water spray.
Unsuitat	ble extinguishing media	: Do not use a heavy water stream.
5.2.	Special hazards arising from the	substance or mixture
No addit	ional information available	
5.3.	Advice for firefighters	
	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory
		protection.
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6.1.	Personal precautions, protective	equipment and emergency procedures
6.1.1.	For non-emergency personnel	
	ncy procedures	: Evacuate unnecessary personnel.
-		
	For emergency responders	
	ve equipment	: Use personal protective equipment as required.
Emerger	ncy procedures	: Ventilate area.
6.2.	Environmental precautions	
Very toxic to aquatic life with long lasting effects.		
6.3.	Methods and material for contain	nment and cleaning up
Methods	for cleaning up	: Collect spillage. On land, sweep or shovel into suitable containers.
6.4.	Reference to other sections	
No addit	ional information available	
SECTIO	N 7: Handling and storage	
7.1.	Precautions for safe handling	
	ons for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation
	Ŭ	in process area to prevent formation of vapour.

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Hygier	ne 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, i	ncluding any incompatibilities
Storag	e conditions	: Store in a well-ventilated place. Keep container tightly closed.
7.3.	Specific end use(s)	
No ado	ditional 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 face shield
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical a	nd chemical properties
Physical state	: Liquid
Molecular mass	: 181.32 g/mol
Colour	: Clear Colorless.
Odour	: fishy/amine odor.
Odour threshold	: No data available
pH	: 11 at 1 g/l at 20 °C
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 2 °C
Freezing point	: No data available
Boiling point	: 117 - 120 °C
Flash point	: 96 °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	: 6.27

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Relative density	: No data available
Density	: 0.91 g/cm ³
Solubility	: Water: Sparingly soluble in water
Log Pow	: 0.4
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 reactive	vity

10.1. Reactivity Thermal decomposition generates : Corrosive vapours.

10.2.	Chemical stability	
Stable	under normal conditions.	
10.3.	Possibility of hazardous reactions	
No additional information available		
10.4.	Conditions to avoid	
High te	mperature. Heat. Direct sunlight.	

10.5. Incompatible materials No additional information available

10.6. Hazardous decomposition products

No additional information available

wallowed.
kin burns and eye damage.
20 °C
age, category 1, implicit 20 °C

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STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Harmful if swallowed.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability	Persistence and degradability	
DICYCLOHEXYLAMINE FOR SYNTHESIS (101-83-7)		
Persistence and degradability	May cause long-term adverse effects in the environment.	

12.3. Bioaccumulative po	ial
DICYCLOHEXYLAMINE FO	YNTHESIS (101-83-7)
Log Pow	0.4

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
SECTION 14: Transport information	

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

14.1. UN number		
UN-No. (ADR)	: 2565	
UN-No. (IMDG)	: 2565	
UN-No. (IATA)	: 2565	
UN-No. (ADN)	: 2565	
UN-No. (RID)	: 2565	

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14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: DICYCLOHEXYLAMINE
Proper Shipping Name (IMDG)	: DICYCLOHEXYLAMINE
Proper Shipping Name (IATA)	: Dicyclohexylamine
Proper Shipping Name (ADN)	: DICYCLOHEXYLAMINE
Proper Shipping Name (RID)	
Transport document description (ADR) Transport document description (IMDG)	UN 2565 DICYCLOHEXYLAMINE, 8, III, (E), ENVIRONMENTALLY HAZARDOUS UN 2565 DICYCLOHEXYLAMINE, 8, III, MARINE DOULUTANT/EN//DONMENTALLY/LATARDOUG
	POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 2565 Dicyclohexylamine, 8, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN) Transport document description (RID)	: UN 2565 DICYCLOHEXYLAMINE, 8, III, ENVIRONMENTALLY HAZARDOUS : UN 2565 DICYCLOHEXYLAMINE, 8, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 8
Danger labels (ADR)	: 8
IMDG	
Transport hazard class(es) (IMDG) Danger labels (IMDG)	: 8 : 8
ΙΑΤΑ	
Transport hazard class(es) (IATA) Hazard labels (IATA)	: 8 : 8
ADN	
Transport hazard class(es) (ADN)	: 8
Danger labels (ADN)	: 8
RID	<i>∛</i> ∨
	0

Transport hazard class(es) (RID)

: 8

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Danger labels (RID)





14.4. Packing group			
Packing group (ADR)	: 111		
Packing group (IMDG)	: 111		
Packing group (IATA)	: 111		
Packing group (ADN)	: 111		
Packing group (RID)	: 111		

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)	:	C7
Limited quantities (ADR)	:	51
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	Τ4
Portable tank and bulk container special provisions (ADR)	:	TP1
Tank code (ADR)	:	L4BN
Vehicle for tank carriage	:	AT
Transport category (ADR)	:	3
Special provisions for carriage - Packages (ADR)	:	V12
Hazard identification number (Kemler No.)	:	80
Orange plates	:	80 2565
Tunnel restriction code (ADR)	-	E
EAC code	:	2X
- Transport by sea		
Packing instructions (IMDG)	:	P001, LP01
IBC packing instructions (IMDG)	:	IBC03
Tank instructions (IMDG)	:	Τ4
Tank special provisions (IMDG)	:	TP1
EmS-No. (Fire)	:	F-A
EmS-No. (Spillage)	:	S-B
Stowage category (IMDG)	:	A
Properties and observations (IMDG)	:	Clear, colourless, combustible cargoes, Immiscible with water

: Clear, colourless, combustible liquid with a fishy odour which may taint other cargoes. Immiscible with water. Causes burns to skin, eyes and mucous membranes.

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MFAG-No	: 153
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A803
ERG code (IATA)	: 8L
- Inland waterway transport	
Classification code (ADN)	: C7
Limited quantities (ADN)	: 5L
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0
- Rail transport	
Classification code (RID)	: C7
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

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

DICYCLOHEXYLAMINE FOR SYNTHESIS is not on the REACH Candidate List DICYCLOHEXYLAMINE FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2. National regulations

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Germany	
Reference to AwSV	: Water hazard class (WGK) 2, significant hazard to water (Classification according to AwSV; ID No. 1226)
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	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed
Denmark	
Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	 Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
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-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H410	Very toxic to aquatic life with long lasting effects.
R22	Harmful if swallowed
R34	Causes burns
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
С	Corrosive
Ν	Dangerous for the environment
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

Safety Data Sheet