# CAS No: 86-74-8 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
Trade name	: CARBAZOLE FOR SYNTHESIS
CAS No	: 86-74-8
Product code	: 02517

1.2. Relevant identified uses of the 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

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), Category 3	H301
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Carcinogenicity, Category	H351
2 Specific target organ toxicity — Single	H335
exposure, Category 3, Respiratory tract irritation	
Hazardous to the aquatic environment — Acute	H400
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

Carc.Cat.3; R40 Xn; R22 Xi; R36/37/38 N; R50/53 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) N	0 1272/2008 [CL P]
Hazard pictograms (CLP)	
	GHS06 GHS08 GHS09
Signal word (CLP)	: Danger
Hazard statements (CLP)	<ul> <li>H301 - Toxic if swallowed</li> <li>H315 - Causes skin irritation</li> <li>H319 - Causes serious eye irritation</li> <li>H335 - May cause respiratory irritation</li> <li>H351 - Suspected of causing cancer</li> <li>H400 - Very toxic to aquatic life</li> </ul>
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing vapours, spray, dust, fume, gas</li> <li>P273 - Avoid release to the environment</li> <li>P281 - Use personal protective equipment as required</li> <li>P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or</li> <li>doctor/physician</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing</li> </ul>

#### 2.3. Other hazards

No additional information available

# SECTION 3: Composition/information on ingredients 3.1. Substance Name : CARBAZOLE FOR SYNTHESIS CAS No : 86-74-8

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

3.2. Mixture

Not applicable

www.spanlab.in

Safety Data Sheet

## SECTION 4: First aid measures

4.1.	<b>Description of first aid measures</b>	i		
First-aid	measures after inhalation		n air and keep at rest in a position comfortable ER or doctor/physician if you feel unwell.	for breathing.
First-aid	measures after skin contact	: Wash with plenty of so medical advice/attention	ap and water. Wash contaminated clothing be on.	fore reuse. Get
First-aid	measures after eye contact		water for several minutes. Remove contact len nue rinsing. Get medical advice/attention.	ises, if present
First-aid	measures after ingestion	: Rinse mouth. Call a P	DISON CENTER or doctor/physician if you fee	el unwell.
4.2.	Most important symptoms and e	ffects, both acute and c	elayed	
Sympton	ns/injuries after inhalation	: May cause respiratory	irritation.	
Sympton	ns/injuries after skin contact	: Causes skin irritation.		
Sympton	ns/injuries after eye contact	: Causes serious eye in	itation.	
Symptor	ns/injuries after ingestion	: Swallowing a small qu	antity of this material will result in serious heal	th hazard.
4.3.	Indication of any immediate med	ical attention and spec	al treatment needed	
Treat sy	mptomatically.			
SECTIC	N 5: Firefighting measures			
5.1.	Extinguishing media			
	extinguishing media	• •	owder. Foam. Water spray.	
Unsuital	ble extinguishing media	: Do not use a heavy wa	ater stream.	
5.2.	Special hazards arising from the	substance or mixture		
No addi	tional information available			
5.3.	Advice for firefighters			
Protectio	on during firefighting	: Do not enter fire area protection.	without proper protective equipment, including	respiratory
SECTIO	N 6: Accidental release measures	;		
6.1.	Personal precautions, protective	equipment and emerge	ancy procedures	
		equipment and emerge		
6.1.1.	For non-emergency personnel	<b>—</b> ———————————————————————————————————		
Emerge	ncy procedures	: Evacuate unnecessar	<i>i</i> personnei.	
6.1.2.	For emergency responders			
Protectiv	/e equipment	: Equip cleanup crew w	th proper protection.	
Emerge	ncy procedures	: Ventilate area.		
6.2.	Environmental precautions			
Avoid re	lease to the environment.			
6.3.	Methods and material for contain	ment and cleaning up		
Methods	s for cleaning up		ovel into suitable containers. Soak up spills with aceous earth as soon as possible.	h inert solids,
6.4.	Reference to other sections			
No addi	tional information available			
SECTIC	N 7: Handling and storage			
7.1.	Precautions for safe handling			
Precauti	ons for safe handling		n and eyes. Use only outdoors or in a well-ven Provide good ventilation in process area to pre	
www.span	lab.in	Version: 1	16/05/2016	3/11

Safety Data Sheet

Hygie	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, including any incompatibilities		
Storag	e conditions	: Keep container tightly closed. Store in a well-ventilated place.
7.3.	Specific end use(s)	
No additional 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 properties		
9.1. Information on basic physical and chemical properties		
Physical state	: Solid	

T Trysteal state	. 3010
Colour	: Pale yellow powder.
Odour	: No data available
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 243 - 246 °C
Freezing point	: No data available
Boiling point	: 355 °C
Flash point	: 220 °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

## Safety Data Sheet

Safety Data Sheet		
Solubility	: Water: Insoluble in water	
Log Pow	: 3.72	
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 reaction	ons	
No additional information available		
10.4. Conditions to avoid		
No additional information available		
10.5. Incompatible materials		
Oxidizing agent.		
10.6. Hazardous decomposition proc	lucts	
No additional information available		
<b>SECTION 11: Toxicological information</b>		
11.1. Information on toxicological eff		
Acute toxicity	: Oral: Toxic if swallowed.	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Suspected of causing cancer.	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single	: May cause respiratory irritation.	
exposure)		
Specific target organ toxicity (repeated	: Not classified	
exposure)		

Safety Data Sheet

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	
CARBAZOLE FOR SYNTHESIS (86-74-8)		
Persi	stence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential		
CARBAZOLE FOR SYNTHESIS (86-74-8)		
Log Pow	3.72	

## 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

## **SECTION 14: Transport information**

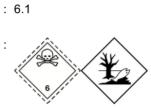
In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number			
UN-No. (ADR)	: 2811		
UN-No. (IMDG)	: 2811		
UN-No.(IATA)	: 2811		
UN-No.(ADN)	: 2811		
UN-No. (RID)	: 2811		
14.2. UN proper shipping name			
Proper Shipping Name (ADR)	: TOXIC SOLID, ORGANIC, N.O.S.		
Proper Shipping Name (IMDG)	: TOXIC SOLID, ORGANIC, N.O.S.		
Proper Shipping Name (IATA)	: TOXIC SOLID, ORGANIC, N.O.S.		
www.spanlab.in	Version: 1	16/05/2016	6/11

## Safety Data Sheet

Proper Shipping Name (ADN)	: TOXIC SOLID, ORGANIC, N.O.S.
Proper Shipping Name (RID)	: TOXIC SOLID, ORGANIC, N.O.S.
Transport document description (ADR)	: UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 2811 TOXIC SOLID, ORGANIC, N.O.S., 6.1, III, ENVIRONMENTALLY HAZARDOUS

14.3.	Transport hazard class(es)
ADR	
Transpo	rt hazard class(es) (ADR)
Danger	labels (ADR)



: 6.1

: 6.1 : 6.1

## IMDG

Transport hazard class(es) (IMDG)	
Danger labels (IMDG)	



## IATA

Transport hazard class(es) (IATA) Hazard labels (IATA)





## ADN

Transport hazard class(es) (ADN) Danger labels (ADN)



: 6.1

: 6.1



#### RID

Transport hazard class(es) (RID) Danger labels (RID)

www.spanlab.in
----------------

Safety Data Sheet



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)	: T2
Special provision (ADR)	: 274, 614
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAH, L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP7
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9
Hazard identification number (Kemler No.)	: 60
Orange plates	60 2811
Tunnel restriction code (ADR)	: E
EAC code	: 2X
- Transport by sea	
Special provision (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002
IBC packing instructions (IMDG)	: IBC08
www.spanlab.in	Version <sup>.</sup> 1

## Safety Data Sheet

IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
MFAG-No	: 154
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y645
PCA limited quantity max net quantity	: 10kg
(IATA)	. Tong
PCA packing instructions (IATA)	: 670
PCA max net quantity (IATA)	: 100kg
CAO packing instructions (IATA)	: 677
CAO max net quantity (IATA)	: 200kg
Special provision (IATA)	: A3, A5
ERG code (IATA)	: 6L
Inland waterway, transport	
- Inland waterway transport	
Classification code (ADN)	:T2 :274, 614, 802
Special provisions (ADN)	
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1 : T
Carriage permitted (ADN)	: PP, EP
Equipment required (ADN) Number of blue cones/lights (ADN)	. FF, EF : 0
Number of blue coneshights (ADN)	. 0
- Rail transport	
Classification code (RID)	: T2
Special provision (RID)	: 274, 614
Limited quantities (RID)	: 5kg
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10
Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAH, L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP7
Special provisions for carriage – Loading and unloading (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 60

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Safety Data Sheet

## **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 CARBAZOLE FOR SYNTHESIS is not on the REACH Candidate List CARBAZOLE FOR SYNTHESIS is not on the REACH Annex XIV List

## 15.1.2. National regulations

#### Germany

<ul> <li>Water hazard class (WGK) 2, hazardous to water (Classification according to VwVwS, Annex 3; WGK No 7310)</li> </ul>
: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
: 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 addi	tional information available		
No aua			

## SECTION 16: Other information

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

Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
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
H301	Toxic if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H351	Suspected of causing cancer

## Safety Data Sheet

H400	Very toxic to aquatic life
R22	Harmful if swallowed
R36/37/38	Irritating to eyes, respiratory system and skin
R40	Limited evidence of a carcinogenic effect
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Ν	Dangerous for the environment
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