CAS-No.: 100-47-0 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

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

	1.1.	Product identifier		
Product form		form	:	Substance
			:	
	EC Inde	x-No.	:	608-012-00-3
	EC-No.		:	202-855-7
	CAS-No		:	100-47-0
	Product	code	:	01875
	Synonyr	ns	:	Phenyl cyanide

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 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)			
1st Foor , Above Bank of India, Guru Vihar , Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com	1.3. Details of the supplier o	the safety data sheet	
	1st Floor , Above Bank of India, Gu Ludhiana Pb. (141007) +91 9316777775, +91 7707855700		
Emergency number : +91 7707855700 (9:00am - 6:00 pm)	1.4. Emergency telephone n	mber	
	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 (dermal), H312 Category 4 Acute toxicity (oral), H302

Acute toxicity (oral), H302 Category 4

Full text of hazard classes and H-statements : see section 16

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

Xn; R21/22 Full text of R-phrases: see section 16

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2.	Label elements	
Label	ing according to Regulation (E	C) No. 1272/2008 [CLP]
Hazar	d pictograms (CLP)	GHS07
Signal	word (CLP)	:-
Hazar	d statements (CLP)	: H302+H312 - Harmful if swallowed or in contact with skin
Preca	utionary statements (CLP)	: P280 - Wear protective gloves, protective clothing, eye protection, face protection.

2.3.	Other hazards
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No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Name	: BENZONITRILE FOR SYNTHESIS	
CAS-No.	: 100-47-0	
EC-No.	: 202-855-7	
EC Index-No.	: 608-012-00-3	
LO IIIdex-IIO.	. 000-012-00-5	

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

3.2. Mixtures	
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Not applicable

SECTION 4: First aid measures		
4.1. Description of first aid measur	res	
First-aid measures after inhalation	: Assure fresh air breathing. Allow the victim to rest.	
First-aid measures after skin contact	: Wash with plenty of water/ Get medical advice/attention.	
First-aid measures after eye contact	: Rinse immediately with plenty of water. Get medical advice/attention.	
First-aid measures after ingestion	: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell.	
4.2. Most important symptoms and	d effects, both acute and delayed	
Symptoms/effects after skin contact	: Harmful in contact with skin.	
Symptoms/effects after ingestion	: Harmful if swallowed.	

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4.3. Indication of any immediate medical attention and special treatment needed			
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
	wder. Foam. Water spray.		
Unsuitable extinguishing media : Do not use a heavy wat			
5.2. Special hazards arising from the substance or mixture			
No additional information available			
5.3. Advice for firefighters			
Protection during firefighting : Do not enter fire area w	ithout proper protective equipment, including respiratory		
protection.			
SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emerge	ncy procedures		
6.1.1. For non-emergency personnel			
Emergency procedures : Evacuate unnecessary	personnel.		
6.1.2. For emergency responders			
Protective equipment : Use personal protective	equipment as required.		
Emergency procedures : Ventilate area.			
C.C. Environmental processions			
6.2. Environmental precautions			
Avoid release to the environment.			
6.3. Methods and material for containment and cleaning up			
	d awaan ar abayal inta ayitabla aantainara		
Methods for cleaning up : Collect spillage. On land	d, sweep or shovel into suitable containers.		
6.4. Reference to other sections			
No additional information available			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Precautions for safe handling : Avoid contact with skin	and eyes. Do not breathe vapours.		
-	bke when using this product. Wash hands and other exposed		
	id water before eating, drinking or smoking and when leaving		
work.			
7.2. Conditions for safe storage, including any incompatibilit			
Storage conditions : Store in a well-ventilate	d place. Keep container tightly closed.		
7.3. Specific end use(s)			
No additional information available			
SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			

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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	: [In case of inadequate ventilation] wear respiratory protection.
SECTION 9: Physical and chemical prop	erties
9.1. Information on basic physical a Physical state	nd chemical properties : Liquid
Colour	: Clear Colorless.
Odour	: almond odor.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: 0.1
Melting point	: -13 °C
Freezing point	: No data available
Boiling point	: 191 °C
Flash point	: 70 °C
Auto-ignition temperature	: 550 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 1 hPa at 20 °C
Relative vapour density at 20 °C	: 3.6
Relative density	: No data available
Density Solubility	:1.01 g/cm³ :Water: Slight (0.1-1%)
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

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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	ic and the second s	
No additional information available	10 10	
10.4. Conditions to avoid		
Direct sunlight.		
40.5 In commotible motorials		
10.5. Incompatible materials		
Strong acids. Strong bases. Oxidizing agent		
10.6. Hazardous decomposition produ	icts	
No additional information available		
SECTION 11: Toxicological information		
11.1. Information on toxicological effe	oto	
· · · · · · · · · · · · · · · · · · ·	: Dermal: Harmful in contact with skin. Oral: Harmful if swallowed.	
Acute toxicity		
	: Not classified	
Serious eye damage/irritation	: Not classified	
Respiratory or skin sensitisation Germ cell mutagenicity	: Not classified : Not classified	
Carcinogenicity : Not classified		
Reproductive toxicity	: Not classified	
STOT-single exposure	: Not classified	
STOT-repeated exposure	: Not classified	
Appiration bazard	: Not classified	
Aspiration hazard	. Not classified	
Potential adverse human health effects	: Harmful if swallowed. Harmful in contact with skin.	
and symptoms		
SECTION 12: Ecological information		
12.1. Toxicity		
No additional information available		

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12.2. Persistence and degradability				
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 assess	sment			
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	: Dispose of contents/container to hazardous or special waste collection point, in			
recommendations	accordance with local, regional, national and/or international regulation.			
SECTION 14: Transport information				
In accordance with ADR / RID / IMDG / IAT	A / ADN			
14.1. UN number				
UN-No. (ADR)	: 2224			
UN-No. (IMDG)	: 2224			
UN-No. (IATA)	: 2224			
UN-No. (ADN)	: 2224			
UN-No. (RID)	: 2224			
14.2. UN proper shipping name				
Proper Shipping Name (ADR)	: BENZONITRILE			
Proper Shipping Name (IMDG)	: BENZONITRILE			
Proper Shipping Name (IATA)	: Benzonitrile			
Proper Shipping Name (ADN)	: BENZONITRILE			
Proper Shipping Name (RID)	: BENZONITRILE			
Transport document description (ADR)	: UN 2224 BENZONITRILE, 6.1, II, (D/E)			
Transport document description (IMDG)	: UN 2224 BENZONITRILE, 6.1, II			
Transport document description (IATA)	: UN 2224 Benzonitrile, 6.1, II			
Transport document description (ADN)	: UN 2224 BENZONITRILE, 6.1, II			
Transport document description (RID)	: UN 2224 BENZONITRILE, 6.1, II			
14.3. Transport hazard class(es)				
ADR				
Transport hazard class(es) (ADR)	: 6.1			
Danger labels (ADR)	: 6.1			

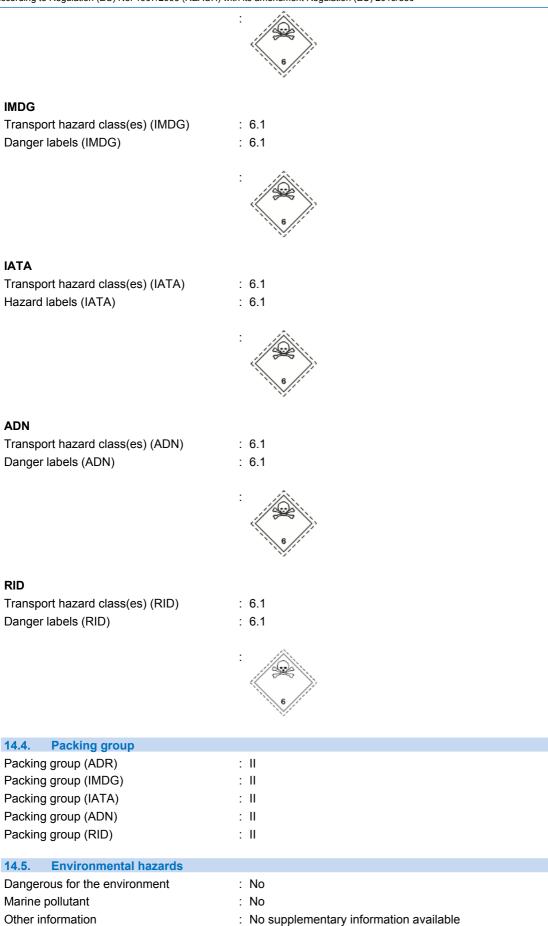
Safety Data Sheet

ΙΑΤΑ

ADN

RID

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14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: T1
Limited quantities (ADR)	: 100ml
Excepted quantities (ADR)	: E4
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9, S19
Hazard identification number (Kemler No.)	: 60
Orange plates	
	<u>60</u> 2224
Tunnel restriction code (ADR)	: D/E
EAC code	: 3Z
- Transport by sea	
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
Segregation (IMDG)	: SG35
Properties and observations (IMDG)	: Colourless liquid with an odour similar to oil of bitter almonds. Reacts with acids, evolving hydrogen cyanide, a highly toxic and flammable gas. Toxic if swallowed, by skin contact or by inhalation.
MFAG-No	: 152
- Air transport	
PCA Excepted quantities (IATA)	: E4
PCA Limited quantities (IATA)	: Y641
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 654
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 662
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 6L

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- Inland waterway transport

interior netorinaly interoport	
Classification code (ADN)	: T1
Special provisions (ADN)	: 802
Limited quantities (ADN)	: 100 ml
Excepted quantities (ADN)	: E4
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 2
- Rail transport	
Classification code (RID)	: T1
Excepted quantities (RID)	: E4
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP2
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage - Loading, unloading and handling (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE5
Hazard identification number (RID)	: 60

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

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.BlmSchV

Netherlands

SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed

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NIET-limitatieve lijst van voo voortplanting giftige stoffen -		The substance is not listed
NIET-limitatieve lijst van voo voortplanting giftige stoffen - Vruchtbaarheid		The substance is not listed
NIET-limitatieve lijst van voo voortplanting giftige stoffen -		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 F	Regulation :	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

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
H302	Harmful if swallowed.	
H312	Harmful in contact with skin.	
R21/22	Harmful in contact with skin and if swallowed	
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