

## CAS-No.: 71-43-2 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 Index-No.	: 601-020-00-8
EC-No.	: 200-753-7
CAS-No.	: 71-43-2
Product code	: 00038
Formula	: C6H6
Chemical structure	

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]

Flammable liquids,H225Category 2Skin corrosion/irritation,H315Category 2Serious eye damage/eyeH319irritation, Category 2

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Germ cell mutagenicity, H340 Category 1B Carcinogenicity, Category H350 1A Specific target organ H372 toxicity — Repeated exposure, Category 1 Aspiration hazard, H304 Category 1

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

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

Carc.Cat.1; R45 Muta.Cat.2; R46 F; R11 T; R48/23/24/25 Xn; R65 Xi; R36/38 Full text of R-phrases: see section 16

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

	 -
2.2.	elements

Labelling according to Regulation (	EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	
	GHS02 GHS07 GHS08
Signal word (CLP)	: Danger
Hazard statements (CLP)	<ul> <li>H225 - Highly flammable liquid and vapour.</li> <li>H304 - May be fatal if swallowed and enters airways.</li> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H340 - May cause genetic defects.</li> <li>H350 - May cause cancer.</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P201 - Obtain special instructions before use.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor</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> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> </ul>

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### 2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substances		
Name	: BENZENE PURE (CRYSTALLIZABLE)	
CAS-No.	: 71-43-2	
EC-No.	: 200-753-7	
EC Index-No.	: 601-020-00-8	

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	3
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Rinse skin with water/shower. Take off immediately all contaminated clothing. Wash with plenty of water/ Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction 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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Immediately call a POISON CENTER/doctor. Rinse mouth. Do not induce vomiting.
4.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/effects	: May cause genetic defects. Causes damage to organs through prolonged or repeated exposure.
Symptoms/effects after inhalation	: May cause cancer by inhalation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways.
4.3. Indication of any immediate med	lical attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
E.2. Creation horardo arigina from the	

<b>J.Z.</b>	Special nazarus ansing from the substance of mixture		
Fire ha	azard	: Highly flammable liquid and vapour.	
Explos	sion hazard	hazard : May form flammable/explosive vapour-air mixture.	
5.3.	Advice for firefighters		
Protec	tion during firefighting	: Do not attempt to take action without suitable protective equipment.	

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SECTION 6: Accidental release measures	S		
6.1. Personal precautions, protective	e equipment and emergency procedures		
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.		
6.1.1. For non-emergency personnel Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergency responders Protective equipment Emergency procedures	: Use personal protective equipment as required. : Stop release.		
6.2. Environmental precautions			
Harmful 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. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.		
6.4.Reference to other sectionsNo additional information available			
SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Additional hazards when processed	: Handle empty containers with care because residual vapours are flammable.		
Precautions for safe handling	: No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so. Do not breathe dust/fume/gas/mist/vapours/spray.		
Hygiene measures	: Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke when using this product.		
7.2. Conditions for safe storage, incl	uding any incompatibilities		
Technical measures	: Proper grounding procedures to avoid static electricity should be followed.		
	Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.		
Storage conditions			
Storage conditions Incompatible materials	electrical/ventilating/lighting equipment.		
Incompatible materials         7.3.       Specific end use(s)	electrical/ventilating/lighting equipment. : Keep in fireproof place. Keep container tightly closed.		
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Incompatible materials         7.3.       Specific end use(s)	<ul><li>electrical/ventilating/lighting equipment.</li><li>Keep in fireproof place. Keep container tightly closed.</li><li>Heat sources.</li></ul>		

### No additional information available

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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	
9.1. Information on basic physical an Physical state	nd chemical properties : Liquid
Molecular mass Colour	: 78.11 g/mol : Clear Colorless.
Odour	: aromatic odor.
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 5.5 °C
Freezing point	: No data available
Boiling point	: 80 - 80.2
Flash point	: -11 °C
Auto-ignition temperature	: 562 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable Highly flammable liquid and vapour.
Vapour pressure	: 99.5 hPa at 20 °C
Relative vapour density at 20 °C	: 2.8
Relative density	: No data available
Density Relative gas density Solubility	: 0.8765 g/cm³ : 0.88 : Water: 0.18 g/100ml @ 25°C
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 0.647 mPa.s @ 20 deg C
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.013 - 0.08 vol %

9.2.	Other information		
No addi	itional information available		

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 10: Stability and reactivity         10.1. Reactivity         No additional information available         10.2. Chemical stability         Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.         10.3. Possibility of hazardous reactions         No additional information available         10.4. Conditions to avoid         Open flame. Direct sunlight.         10.5. Incompatible materials         No additional information available         10.6. Hazardous decomposition products         May release flammable gases.         SECTION 11: Toxicological information         11.1. Information on toxicological effects         Acute toxicity       : Not classified         Skin corrosion/irritation       : Causes skin irritation.         Serious sey admage/irritation       : Causes serious eye irritation.         Respiratory of skin sensitization       : Not classified         Germ cell mutagenicity       : May cause genetic defects.         Carinogenicity       : Not classified         STOT-single exposure       : Not classified         STOT-repeated exposure       : Causes damage to organs through prolonged or repeated exposure.         Aspiration hazard       : May be fatal if swallowed and enters ainvays.         BENZENE PUPE (CRYSTALLIZABLE (71-43-2)	according to Regulation (EC) No. 1907/2006 (REACH	i) with its amendment Regulation (EU) 2015/830
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	BENZENE PURE (CRYSTALLIZABLE	E) (71-43-2)
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### **SECTION 12: Ecological information**

### 12.1. Toxicity

No additional information available

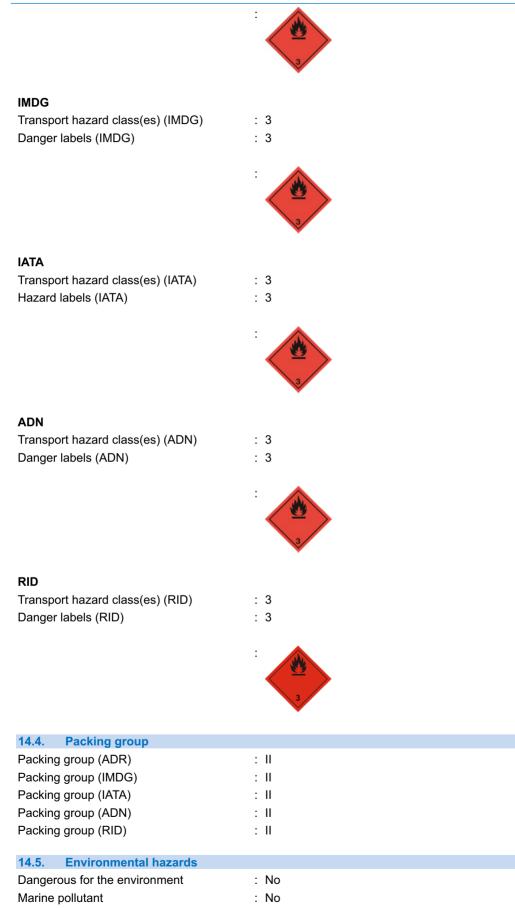
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12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asses	sment
No additional information available	onon
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.
Additional information	: Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	: Hazardous waste due to toxicity.
SECTION 14: Transport information	
SECTION 14. Hansport information	
In accordance with ADR / RID / IMDG / IAT	A / ADN
14.1. UN number	
UN-No. (ADR)	: 1114
UN-No. (IMDG)	: 1114
UN-No. (IATA)	: 1114
UN-No. (ADN)	: 1114
UN-No. (RID)	: 1114
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: BENZENE
Proper Shipping Name (IMDG)	: BENZENE
Proper Shipping Name (IATA)	: Benzene
Proper Shipping Name (ADN)	: BENZENE
Proper Shipping Name (RID)	: BENZENE
Transport document description (ADR)	
	: UN 1114 BENZENE, 3, II, (D/E)
Transport document description (IMDG)	: UN 1114 BENZENE, 3, II, (D/E) : UN 1114 BENZENE, 3, II (-11°C c.c.)
Transport document description (IATA)	: UN 1114 BENZENE, 3, II, (D/E) : UN 1114 BENZENE, 3, II (-11°C c.c.) : UN 1114 Benzene, 3, II
	: UN 1114 BENZENE, 3, II, (D/E) : UN 1114 BENZENE, 3, II (-11°C c.c.)
Transport document description (IATA)	: UN 1114 BENZENE, 3, II, (D/E) : UN 1114 BENZENE, 3, II (-11°C c.c.) : UN 1114 Benzene, 3, II
Transport document description (IATA) Transport document description (ADN) Transport document description (RID)	: UN 1114 BENZENE, 3, II, (D/E) : UN 1114 BENZENE, 3, II (-11°C c.c.) : UN 1114 Benzene, 3, II : UN 1114 BENZENE, 3, II
Transport document description (IATA) Transport document description (ADN) Transport document description (RID) 14.3. Transport hazard class(es)	: UN 1114 BENZENE, 3, II, (D/E) : UN 1114 BENZENE, 3, II (-11°C c.c.) : UN 1114 Benzene, 3, II : UN 1114 BENZENE, 3, II
Transport document description (IATA) Transport document description (ADN) Transport document description (RID) 14.3. Transport hazard class(es) ADR	<ul> <li>: UN 1114 BENZENE, 3, II, (D/E)</li> <li>: UN 1114 BENZENE, 3, II (-11°C c.c.)</li> <li>: UN 1114 BENZENE, 3, II</li> <li>: UN 1114 BENZENE, 3, II</li> <li>: UN 1114 BENZENE, 3, II</li> </ul>
Transport document description (IATA) Transport document description (ADN) Transport document description (RID) 14.3. Transport hazard class(es)	: UN 1114 BENZENE, 3, II, (D/E) : UN 1114 BENZENE, 3, II (-11°C c.c.) : UN 1114 Benzene, 3, II : UN 1114 BENZENE, 3, II
Transport document description (IATA) Transport document description (ADN) Transport document description (RID) 14.3. Transport hazard class(es) ADR	<ul> <li>: UN 1114 BENZENE, 3, II, (D/E)</li> <li>: UN 1114 BENZENE, 3, II (-11°C c.c.)</li> <li>: UN 1114 BENZENE, 3, II</li> <li>: UN 1114 BENZENE, 3, II</li> <li>: UN 1114 BENZENE, 3, II</li> </ul>
Transport document description (IATA) Transport document description (ADN) Transport document description (RID) <b>14.3.</b> Transport hazard class(es) ADR Transport hazard class(es) (ADR)	: UN 1114 BENZENE, 3, II, (D/E) : UN 1114 BENZENE, 3, II (-11°C c.c.) : UN 1114 BENZENE, 3, II : UN 1114 BENZENE, 3, II : UN 1114 BENZENE, 3, II : 3

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: No supplementary information available

Other information

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#### 14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: F1
Limited quantities (ADR)	: 11
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container	: T4
instructions (ADR)	
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 2
Special provisions for carriage - Operation (ADR)	: S2, S20
Hazard identification number (Kemler No.)	: 33
Orange plates	22
	33
	1114
Tunnel restriction code (ADR)	: D/E
EAC code	: 3WE
APP code	: A(fl)
- Transport by sea	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-D
Stowage category (IMDG)	: В
Stowage and handling (IMDG)	: SW2
Flash point (IMDG)	: -11°C c.c.
MFAG-No	: 130
Air transport	
- Air transport PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y341
PCA limited quantity max net quantity	: 1L
(IATA)	. 12
PCA packing instructions (IATA)	: 353
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 364
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 3H
- Inland waterway transport	
Classification code (ADN)	: F1
Limited quantities (ADN)	: 1L
www.spanlab.in	
- P	

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	with its amendment regulation (
Excepted quantities (ADN)	: E2
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 1
- Rail transport	
Classification code (RID)	: F1
Limited quantities (RID)	: 1L
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P001, IBC02, 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)	: LGBF
Transport category (RID)	: 2
Colis express (express parcels) (RID)	: CE7
Hazard identification number (RID)	: 33

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

BENZENE PURE (CRYSTALLIZABLE) is not on the REACH Candidate List BENZENE PURE (CRYSTALLIZABLE) 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.BImSchV	

### Netherlands

SZW-lijst van kankerverwekkende stoffen SZW-lijst van mutagene stoffen	: BENZENE PURE (CRYSTALLIZABLE) is listed : BENZENE PURE (CRYSTALLIZABLE) is 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

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Denmark	
Classification remarks	: Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	<ul> <li>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</li> </ul>
	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 additional information available

**SECTION 16: Other information** 

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

Full lext of R-, H- and EU	
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 1A	Carcinogenicity, Category 1A
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Muta. 1B	Germ cell mutagenicity, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H340	May cause genetic defects.
H350	May cause cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
R11	Highly flammable
R36/38	Irritating to eyes and skin
R45	May cause cancer
R46	May cause heritable genetic damage
R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R65	Harmful: may cause lung damage if swallowed
F	Highly flammable
Т	Toxic
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