

MATERIAL SAFETY DATA SHEET

According to applicable EC directive

Product Name : BAYCOPUR-1K

Print Date : 24.07.2014
Version : 1

1- DEFINITION OF THE MATERIAL

Product Name : BAYCOPUR-1K A-Component
Product Use : Injection Resin

Manufacturer / supplier : AB-SCHOMBURG CONSTRUCTION CHEMICALS INC.
Address: 19 Mayıs Mah.Turapoğlu Sok. Hamdiye Yazgan İş Merkezi 4/8
34736 – Kozyatağı / Istanbul / TURKEY
Tel : (0216) 302 71 31 /-32
Fax : (0216) 302 70 01
e-mail : info@ab-schomburg.com.tr
web : www.ab-schomburg.com.tr

2- INFORMATION ABOUT COMPOSITION

Description	%	Symbol	R-phrases
Diphenylmethane 4,4' – diisocyanate	30-60	XN, Xi	20, 36/37/38, 42/43
Diphenylmethane 2,4' – diisocyanate	3-7	XN, Xi	20, 36/37/38, 42/43
Diphenylmethanediisocyanate, Isomers and homologues	30-60	XN, Xi	20, 36/37/38, 42/43

3- HAZARD IDENTIFICATION

Reacts slowly with water to produce carbon dioxide which may rupture closed containers. This reaction accelerates at higher temperatures.

Appearance : Brown liquid
Safety labeling : Xn, R20
Exposure value limits : Not established
R-Phrase : R42/43 (full text see chapter 15)

Potential Acute Health Effects : This product is a respiratory irritant and potential respiratory sensitiser, repeated inhalation of vapour or aerosol at levels above the occupational exposure limit could cause respiratory sensation. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper reactive response to even minimal concentrations may develop in sensitized persons.

4- FIRST AID MEASURES

Eye Contact

Contamination of the eyes must be treated by through irrigation with water, with the eyelids held open. A doctor (or eye specialist) should be consulted immediately.

Skin Contact

After skin contact with skin wash immediately with plenty of water and soap. Contaminated clothes have to be taken off.

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Ingestion

Do not induce vomiting. Do not swallow. Provided the patient is conscious, wash out mouth with water. Obtain immediate medical attention.

Inhalation

Remove patient from exposure, keep warm and at rest. Obtain immediate medical attention. Treatment is symptomatic for primary irritation or bronchospasm. If breathing is laboured, oxygen should be administered by qualified personnel. Apply artificial respiration if breathing has ceased or shows signs of failing.

5- FIRE FIGHTING MEASURES

Extinguishing media:

CO₂, foam, dry powder, sand. Water can be used if no other available and then in copious quantities. Full water jet could spread the fire. Not classed as flammable, if involved in a fire, it may emit noxious and toxic fumes. Containers may burst if overheated. Combustion products may include CO₂, CO, hydrocarbons and HCN.

Further indications: Cool endangered containers with water spray jet.

Special Protective Equipment : Use breathing apparatus with independent air supply (isolated). PCV boots, gloves, safety helmet and protective clothing should be worn.

6- ACCIDENTAL RELEASE MEASURES

Splash goggles, full suit, boots, gloves, a self-contained breathing apparatus should be used to avoid inhalation. Prevent further leakage, spillage or entry into drains/surface water/ground water. Absorb spillage onto sand or any suitable absorbent material. Shovel into open-top drums for further decontamination.

7- HANDLING AND STORAGE

Handling:

Do not breathe vapour/spray. Avoid contact with skin and eyes. Ensure through ventilation of stores and work areas. Avoid uncontrolled mixing component A (polyol) with component B (Iso), because those components react together causing polymerization combine with increasing of volume. A basic essential in sampling, handling and storage is the prevention of contact with water.

Storage:

Keep containers properly sealed and store indoors in a well ventilated area. Keep away from frost. Keep away from moisture.

8- EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional information about design of technical systems:

Avoid contact with eyes and skin. It is recommended to use safety clothing. Safety gloves and goggles/safe screen. Do not inhale vapours / aerosols. Clean skin thoroughly after working. At work do not eat, drink, smoke or take drugs. Keep away from food and drink.

Ingredient Name

Diphenylmethanediisocyanate, isomers and homologues

Diphenylmethane 4,4' – diisocyanate

Diphenylmethane 2,4' – diisocyanate

Occupational Exposure Limits

TWA : 0,02 mg/m³

TWA : 0,05 mg/m³

TWA : 0,05 mg/m³

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Respiratory protection

Suitable respiratory equipment with positive air supply should be used in cases of insufficient ventilation or where operational procedures demand it.

Exposure Controls/Personal Protection

Hand Protection Chemical resistant safety gloves

Eye protection Goggles with side protection, in case of increased risk add protective face shield

Skin Protection Standard work clothing

9- PHYSICAL AND CHEMICAL PROPERTIES

General Information

Form	: Liquid
Colour	: Dark brown
Odour	: slightly musty
NCO	: ~28
Flash point °C	: > 230
Solubility in Water	: partially soluble
Density at 25 °C g/cm ³	: ca. 1,18-1,25
Viscosity 25 °C mPas	: ca. 150-400

10- STABILITY AND REACTIVITY

Hazardous Decomposition Products : no hazardous decomposition products when stored and handled correctly.

Stability : Chemical stable at room temperature. Reaction with water (moisture) produces CO₂ gas. Exothermic reaction with materials containing active hydrogen groups.

Avoidable materials : Water, alcohols, amines, bases and acids.

Avoidable conditions: High temperatures and dampness.

11- TOXICOLOGICAL INFORMATION

Acute toxicity :

Ingredient	Test	Result	Route	Species
Diphenylmethanediisocyanate , Isomers and homologues	LC50	>5000 mg/kg	Oral	Rat
	LD50	>5000 mg/kg	Dermal	Rabbit
	LD50	0,49 mg/l (4 hours)	Inhalation	Rat(Respirable aerosol)
Dimethylmethane 4,4'-diisocyanate	LC50	>5000 mg/kg	Oral	Rat
	LD50	>5000 mg/kg	Dermal	Rabbit
	LD50	0,49 mg/l (4 hours)	Inhalation	Rat(Respirable aerosol)

Effect on inhalation : respiratory irritant and potential respiratory sensitiser.

Effect on the eyes: the vapor,, aerosol and liquid might be irritant.

Effect on the skin: Repeated and/or prolonged contact may cause skin irritations.

Effect on the ingestion : Low oral toxicity. Ingestion may cause irritation of the gastrointestinal tract.

Chronic toxicity : Unlikely under normal industrial use.

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12- ECOLOGICAL INFORMATION

Mobility : by considering the production and use of the substance, it is unlikely that significant environment exposure in the air or water will arise.

Exotoxicity Data :

Ingredient	Species	Period	Result
Diphenylmethanediisocyanate , Isomers and homologues	E.coli (IC50)	48 hours	>1000mg/l
	Daphnia magna(EC50)	48 hours	>1000mg/l
	Zebra Fish (LC50)	96 hours	>100mg/l
Dimethylmethane 4,4'-diisocyanate	E.coli (IC50)	48 hours	>100mg/l
	Daphnia magna(EC50)	48 hours	>1000mg/l
	Zebra Fish (LC50)	96 hours	>1000mg/l

13- DISPOSAL INFORMATION

The generation of waste should be avoided or minimized wherever possible. Untreated material is not suitable for disposal. Waste, even small quantities, should never be poured down drains, sewers or water courses. Large quantities-incinerate under approved controlled conditions, using incinerators suitable for the disposal of noxious chemical waste. Empty drums should be decontaminated and either passed to an approved drum reconitioner or destroyed.

14- TRANSPORTATION INFORMATION

Land and inland navigation transport ADR/RID, marine transport IMDG, air transport ICAO/IATA-DGR not regulated.

15- REGULATORY INFORMATION

Labelling in accordance with the EC directives/the relevant national laws.

Symbol-/ indication of danger	Xn	Harmful
	Xi	Irritating
Risk phrases (R-phrases)	R20	Harmful by inhalation
	R36/37/38	Irritating to eyes, respiratory system and skin
	R42/43	May cause sensitization by inhalation and skin contact
Safety advices (S-phrases)	S1/S2	Keep locked up and out of reach of children
	S23	Do not breathe vapour/spray
	S26	In case of contact with eyes, rinse immediately with plenty of water
	S28	After contact with skin, wash immediately with plenty of soap and water
	S36/37	Wear suitable protective clothing and gloves
	S38	In case of insufficient ventilation, wearsuitable respiratory equipment
	S45	In case of accident if you feel unwell, seek medical advise immediately (show the label where possible)

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16- OTHER INFORMATION

Full text R-phrases with no appearing in Section 2 and 3 :

R20 Harmful by inhalation
R36/37/38 Irritating eyes, respiratory system and skin
R42/43 May cause sensitization by inhalation and skin contact

Liquid decontaminants:

Decontaminant 1 :

-Water	– 90%
-Concentrated ammonia solution	– 8%
-Liquid detergent	– 2%

Decontaminant 2 :

-Water	– 90-95%
-Sodium Carbonate	– 5-10%
-Liquid detergent	– 0,2-0,5%

Alterations since the latest issue:

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify warranty with regard to the products' properties.