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HEALTH AND SAFETY PRODUCT INFORMATION

Product: 2K POLYURETHANE ADHESIVE PART 'A' Date: 20th June 2014

Product code:

2.

Composition/	Information on ingredients			
Substance	EINECS/ELINCS CAS	Range [%]	Symbol / R-phr.	
Polypropylene glycol	25322-69-4	25 - < 50	Xn-22	
Diphenylmethanediisocyanate, isomeres and				
Homologues	9016-87-9	25 - < 50	Xn-20-36/37/38-42/43	
4,4'-Methylenediphenyl diisocyanate				
	202-966-0101-68-8	25 - < 50	Xn-20-36/37/38-42/43	

3.

Hazards identification

R 20/22: Harmful by inhalation and if swallowed. R 36/37/38: Irritating to eyes, respiratory system and

skin. R 42/43: May cause sensitisation by inhalation and skin contact.

First-Aid measures

General information

Remove contaminated soaked clothing immediately and dispose of safely.

Inhalation

Ensure supply of fresh air. In the event of symptoms refer for medical treatment.

Skin contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

Eye contact

In case of contact with skin wash off immediately with soap and water.

Consult a doctor if skin irritation persists.

Ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Supply with medical care.

Advice to doctor

Treat symptomatically.

5.

Fire-Fighting measures

Suitable extinguishing media

Foam. Dry powder. Water spray jet. Carbon dioxide.

Extinguishing media that must not be used

Full water jet.

Special exposure hazards arising from the substance or preparation itself or combustion products

Risk of formation of toxic pyrolysis products. In the event of fire the following can be released: Nitrogen oxides (NOx). Hydrogen cyanide (HCN).

Special protective equipment for firefighters

Use self-contained breathing apparatus. Do not inhale explosion and/or combustion gases.

Additional information

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6.

Accident release measures

Personal precautions

Use personal protective clothing. Use breathing apparatus if exposed to vapours/dust/aerosol. High risk of slipping due to leakage/spillage of product.

Methods for cleaning up/taking up

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).

Dispose of absorbed material in accordance with the regulations.

Environmental precautions

Do not discharge into the drains/ surface waters/ groundwater.

Prevent spread over a wide area (e.g. by containment or oil barriers).

Handling and storage

Advice on safe handling

Provide suitable extraction at the processing machines. Use only in well ventilated areas.

Advice on protection against fire and explosion

No special measures necessary.

Advice on storage compatibility

Do not store together with oxidizing agents.

Requirements for storage rooms and vessels

Prevent penetration into the ground. Keep only in original container.

Further information on storage conditions

Keep container tightly closed. Keep container in a well-ventilated place. Store in a dry place

8.

Exposure controls/personal protection				
Ingredients with occupational exposure limits to be monitored: (GB)				
Substance	LTEL[ppm]	LTEL[mg/m³]	General remarks	
4,4'-Methylenediphenyl diisocyanate		0,02	as-NCO, Sen, 25/3	
Diphenylmethanediisocyanate, isomeres				
and homologues		0,02	as-NCO, Sen, 25/3	
LTEL: Long-term exposure limit				

Respiratory protection

Breathing apparatus in the event of high concentrations.

Hand protection

Butyl rubber, >120 min (EN 374)

Eye protection

Safety glasses.

Skin protection

Light protective clothing.

General protective measures

Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols.

Hygiene measures

At work do not eat, drink, smoke or take drugs. After worktime and before work breaks the affected skin areas must be thoroughly cleaned. Keep away from tobacco. Use barrier skin cream.

Delimitation and monitoring of the environmental exposition

Not determinated.

Physical and chemical properties

Form: Liquid.

Colour: Dark brown.
Odour: Characteristic.
pH-value: Not applicable.

pH-value, 1% Not applicable.

Boiling point [°C]: 208

Flash point [°C]: 213

Flammability:[°C] Not determinated.

Lower explosion limit: Not

applicable.

Upper explosion limit: Not

applicable.

Combustible properties: No.

Vapour pressure [kPa]: Not determinated.

Density [g/ml]: 1,2

Solubility in water: Reacts with water. Partition coefficient: noctanol/ water:

Not determinated.

Viscosity: Not applicable.

Relative vapour density determined in air:

Not determinated.

Evaporation speed: Not determinated.

Melting point [°C]: Not determinated.

Autoignition temperature [°C]:

Not determinated.

Decomposition temperature [°C]:

Not determinated.

Bulk density [kg/m³]: Not determinated.

10.

Stability and reactivity

Hazardous reactions

Reactions with water. Reactions with alcohols, amines, aqueous acids and alkalies.

Hazardous decomposition products

No hazardous decomposition products known.

11.

Toxicological information

Acute oral toxicity OECD 401 Not determinated.

Acute dermal toxicity OECD 402 Not determinated.

Acute inhalational toxicity OECD 403 Not determinated.

Irritant effect on skin OECD 404 Not determinated.

Irritant effect on eve OECD 405 Not determinated.

Sensitization OECD 406 Not determinated.

Subacute toxicity Not determinated.

Mutagenicity Not determinated.

Experiences made in practice None

General remarks No toxicological data are available. The product was classified on the

basis of the calculation procedure of the preparation directive.

Carcinogenicity Not determinated.

Reproduction toxicity Not determinated.

Chronic toxicity Not determinated.

Ecological information

Fish toxicity Not determinated.

Daphnia toxicity Not determinated

Behaviour in environment compartments Not determinated

Behaviour in sewage plant Not applicable.

Bacteria toxicity Not determinated

Biological degradability Not applicable.

COD Not determinated

BOD5 Not determinated

AOX-advice No dangerous components.

76/464/EC Not applicable.

General information Ecological data are not available.

13.

Disposal considerations

Disposal / Product

Dispose of as hazardous waste. Coordinate disposal with the authorities if necessary.

Disposal / Contaminated packaging

Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

080501*

14.

Transport information	
Classification according to	not classified as Dangerous Goods
ADR.	

Declaration: Labelling:

Factor, ADR 1.1.3.6: Hazard-no: Label: LQ, ADR 3.4.6: Vapour pressure [kPa]: Not

determinated

Classification according to

IMDG:

Declaration: not classified as Dangerous Goods

Labelling:

EmS: Label: LQ, [I/kg]:

Classification according to

IATA: not classified as Dangerous Goods

Declaration: Labelling: Label:

Regulatory information

Labelling: The product is classified and labelled in accordance with EC directives

Hazard symbols

Harmful

Contains:

4,4'-Methylenediphenyl diisocyanate

Diphenylmethanediisocyanate, isomeres and homologues

Polypropylene glycol

R 20/22: Harmful by inhalation and if swallowed.

R 36/37/38: Irritating to eyes, respiratory system and skin.

R 42/43: May cause sensitisation by inhalation and skin contact.

S 23.3: Do not breathe vapour.

S 36/37: Wear suitable protective clothing and gloves.

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Observe manufacturer's instructions.

16.

Other information			
R 20: Harmful by inhalation.			
R 22: Harmful if swallowed.			
R 36/37/38: Irritating to eyes, respiratory system and skin.			
R 42/43: May cause sensitisation by inhalation and skin contact.			
Creation date	20.06.06		
Replace sheet of			

Text of R-Statements listed in ingredients

This leaflet is for general guidance only and may contain inappropriate information under particular conditions. Samples will be provided on request to enable customers to satisfy themselves as to the suitability of the product for any specific purpose and to assess the product under their own working conditions.

Technical Data: 2K POLYURETHANE ADHESIVE Product Code: rr60

DESCRIPTION

2K Polyurethane Adhesive is a unique urethane adhesive specially formulated for the bonding and repairing of vehicle body and plastic parts. It is supplied in a 1:1 ratio dual cartridge, in which the two components are automatically mixed and dispensed as a bubble-free, non-sag paste.

- ✓ Quick and easy to use
- **✓** Suitable for application to a wide range of substrates
- ✓ Non-sag
- ✓ High flexibility
- **✓** Excellent resistance to vibration and impact
- ✓ Exceptional bond strength and durability
- ✓ Super fast curing,
- ✓ Non-shrinking
- ✓ Easy to sand within minutes

- ✓ Can be overpainted when cured
- **✓** Remains flexible even at low temperatures
- ✓ Solvent free
- ✓ Resists oil, diesel and other chemicals
- ✓ Securely bonds different substrates to each other
- **✓** Excellent gap filling properties

Chemical Description Urethane-Prepolymer

Colour Black

Shelf life New 24 months, used 6 months.

Density 1,15 g/cm³

Viscosity 40 poise / 4 Pascal

Temp. resistance -40 to +140° C when cured

Optimum curing time 20 MINS
Tensile strength 21800 (kPa)
Elongation 25% (DIN53504)
Lapshear 6894 (kPa)

Shore Hardness (D)

Flexible ca. 60 (after 4 days)
Universal ca. 70 (after 4 days)
Rigid ca. 80 (after 4 days)

Shear strength 16J/mm²

Adhesion 700N (primed PP); 200N (non-primed PP);

700N

(non-primed PC); 900N (non-primed ABS)

Cartridge size 50ml dual Packaging 6 x 50ml

Working time 1 mins
Sandable After 10 mins
Curing time 10 mins

The information contained in this sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any other use or process is the responsibility of the user.

ISSUE DATE 20.06.14