MATERIAL SAFETY DATASHEET

COMMERCIAL NAME **CONIPUR 84**

01. Product & Company Identification

Produced by : Feb Limited, Albany House, Swinton Hall Road, Swinton, Manchester, M27 4DT, Great Britain - Tel: +44-61-794 7411 - Fax: +44-61-793 4529

02. Composition/information on ingredients

Chemical characterization

Polyvinylbutyral-Haftprimer

Hazardous components

BUTANOL ; CAS-No. : 71-36-3
Percentage : 25 - 50 %
Classification : Xi ; R 41 Xn ; R 22 Xi ; R 37/38 R 67

XYLENE ; CAS-No. : 1330-20-7
Percentage : 10 - 25 %
Classification : Xn ; R 20/21 Xi ; R 38

ETHYLBENZENE ; CAS-No. : 100-41-4
Percentage : 2.5 - 10 %
Classification : Xn ; R 20

ISO-BUTANOL ; CAS-No. : 78-83-1
Percentage : 2.5 - 10 %
Classification : Xi ; R 41 Xi ; R 37/38 R 67

PHENOL ; CAS-No. : 108-95-2
Percentage : 0.1 - 0.5 %
Classification : T ; R 24/25 C ; R 34

03. Hazards identification

Hazard designation

Flammable · Risk of serious damage to eyes · Harmful by inhalation, in contact with skin and if swallowed · Irritating to eyes, respiratory system and skin

04. First-aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

After inhalation

Take the casualty into the fresh air and keep warm. Keep at rest. Irregular breathing/no breathing: artificial respiration. Unconsciousness: lateral position - call a physician.

After skin contact
Immediately remove all contaminated clothing. Wash away with soap and water and rinse. Do NOT use solvents or thinners.

After eye contact
Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

After ingestion
Contact a doctor immediately. Keep at rest. Do not induce vomiting.

05. Fire-fighting measures

Suitable extinguishing media
Alcohol resistant foam, CO2, powders, water spray.

Unsuitable extinguishing media
Waterjet.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged
Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. During fires carbon monoxide, nitrogen oxide, isocyanate vapour and traces of hydrogen cyanide may be given off.

Special protective equipment
Appropriate breathing apparatus may be required.

Additional information
Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

06. Accidental release measures

Personal precautions
Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.

Environmental precautions
Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

Methods for cleaning up/collecting
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Subsequently put in the waste container. Do not seal (CO2 may be given off).

07. Handling and storage

Information for safe handling

Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing. No sparking tools should be used. Provide for fresh air ventilation. Do not inhale the vapour. Avoid contact with skin and eyes. Do not eat or drink during work - no smoking. Comply with the health and safety at work laws.

Information about protection against explosions and fires

Keep away from ignition sources - No smoking.

Requirements to be met by storerooms and containers

Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Containers should be kept dry and sealed.

Storage class (VCI) : 3A

08. Exposure controls and personal protection

Additional information about engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of vapours or particels below the OEL (=Occupational Exposure Limit) , suitable respiratory protection must be worn. Allergics and persons who have problems with the respiration tract are not recommended to work with this product.

Components with critical values that require monitoring at the workplace (exposure limits)

BUTANOL ; CAS-No. : 71-36-3

Specification :	TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value :	100 ppm / 300 mg/m3
Category :	= 1 =
Version date :	01.06.1999

XYLENE ; CAS-No. : 1330-20-7

Specification :	TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value :	100 ppm / 440 mg/m3
Category :	4
Remarks :	H
Version date :	01.02.2000

Specification :	TRGS 903 - biological workplace tolerance values (D)
Parameter :	Xylene / whole blood / end of exposure or shift
Value :	1.5 mg/l
Version date :	01.08.1999

Specification :	TRGS 903 - biological workplace tolerance values (D)
Parameter :	Methylhippuric acid / urine / end of exposure or shift
Value :	2 g/l
Version date :	01.08.1999

ETHYLBENZENE ; CAS-No. : 100-41-4

Specification :	TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value :	100 ppm / 440 mg/m3
Category :	4
Remarks :	H
Version date :	01.02.2000

Specification :	TRGS 903 - biological workplace tolerance values (D)
Parameter :	Ethylbenzene/ whole blood / end of exposure or shift
Value :	1 mg/l
Version date :	01.08.1999

ISO-BUTANOL ; CAS-No. : 78-83-1

Specification :	TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value :	100 ppm / 300 mg/m3
Category :	= 1 =
Remarks :	Y
Version date :	01.06.1999

PHENOL ; CAS-No. : 108-95-2

Specification :	TRGS 900 - maximum limit in the atmosphere at the workplace (D)
Value :	5 ppm / 19 mg/m3
Category :	= 1 =
Remarks :	H
Version date :	01.02.2000

Specification :	TRGS 903 - biological workplace tolerance values (D)
Parameter :	Phenol / urine / end of exposure or shift
Value :	0.3 g/l
Version date :	01.08.1999

Specification :	Short term exposure limit (EC)
Value :	5 ml/m3 / 19 mg/m3
Remarks :	H
Version date :	01.05.1995

Specification :	threshold limit value (EC)
Value :	2 ml/m3 / 7.8 mg/m3
Remarks :	H
Version date :	01.05.1995

Personal protective equipment

Respiratory protection

By spraying: air fed respirator. By other operations than spraying: in well ventilated areas, airfed respirators could be replaced by a combination of charcoal filter and particulate filter mask.

Hand protection

Protective gloves, PVC or rubber. , e.g. Butyl rubber After washing hands replace lost skin fat by fat containing skin creams.

Eye protection
Use safety glasses.

Body protection
Light protective clothing.

09. Physical and chemical properties

Image

Form : Liquid.
Colour : Green-yellowish.
Odour : Like solvent.

Relevant safety data

Boiling point / range :	(1013 hPa)	ca.	82	°C	
Flash point :		>	23	°C	DIN 53213
Vapour pressure :	(50 °C)	ca.	5	hPa	
Density :	(20 °C)	ca.	0.9	g/cm3	
Solvent-separation test :	(20 °C)	<	3	%	
Viscosity :	(23 °C)		120	mPa.s	

10. Stability and reactivity

Conditions to avoid

Stable under recommended storage and handling conditions(See section 7).

Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Exothermic reaction with amines and alcohols. In contact with water (moisture) CO2 is formed which leads to an excess pressure in closed containers.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Experience on practice

Based on the properties of the isocyanate components and considering toxicological data on similar preparations, this preparation may cause acute irritation and/or sensitization of the respiratory system leading to an asthmatic condition, wheeziness and a thightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL (=Occupational Exposure Limit). Repeated exposure may lead to permanent respiratory disability. Delayed reactions possible (breathing problems, coughs, asthma) Inhalation/eye contact: in high concentrations irritating to the mucous membranes, narcotic effect and influence on power of reaction and loss of coordination possible. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea.

Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (88/379/EEC).

12. Ecological information

Is converted in connection with water in a solid, unsoluble and inert polyurea, liberating CO2.

Additional ecological information

General ecological information

Do not empty into waters or drains.

13. Disposal considerations

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

Product

Recommendation
In accordance with local official regulations. Pass on to an appropriate incinerating plant or depository or recycling. Residue can be made harmless by reacting with a mixture of isopropanol, ammonia and water. Reaction promoted by detergents and water-soluble solvent.

Waste key
Disposal Code according to European Waste Catalog (EWC) please specify according to the use of product, e.g.: 080102 Waste from production, formulation, sales and application of paints and varnishes. Old paints and varnishes, not containing halogenated hydrocarbons.
Switzerland: Disposal code (VVS): 1620 Waste from paints, varnishes and adhesives with organic phase or solvent

14. Transport information

Land transport ADR/RID and GGVS/GGVE

Classification

Class :	3 31 c	**Kemlercode :**	30
Substance number :	1263	**Margin-Number :**	2301

Proper shipping name
PAINT

Packaging

Tremcard :	3

Maritime transport IMDG/GGVSea

Classification

IMDG-Code :	3.3	**IMDG - Page :**	3372
UN number :	1263	**Marine Poll. :**	-

MFAG-Table : 310 **EmS number :** 3-05

Proper shipping name
PAINT

Packaging
Packaging group : III
Tremcard : 3

Air transport ICAO-TI and IATA-DGR

Classification
Class : 3
UN number : 1263

Proper shipping name
PAINT

Packaging
Packaging group : III
Tremcard : 3

15. Regulatory information

Classification according to EEC directives

Danger symbol and danger designation


Xn ; Harmful

Hazard-determining components of labelling

BUTANOL ; CAS-No. : 71-36-3

XYLENE ; CAS-No. : 1330-20-7

R-phrases

10	Flammable
41	Risk of serious damage to eyes
20/21/22	Harmful by inhalation, in contact with skin and if swallowed
36/37/38	Irritating to eyes, respiratory system and skin

S-phrases

51	Use only in well-ventilated areas.

37/39	Wear suitable protective gloves and eye/face protection
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
24/25	Avoid contact with skin and eyes

National regulatory information

Germany: Safety Instruction Code of german occupational safety and health organisation.
Berufsgenossenschaften der Bauwirtschaft: GISCODE PU 50

Regulation on inflammable liquids (VbF)

VbF-Class : AII

Emission control act ("TA-Luft")

Sum organic substances class I : < 5 %

Sum organic substances class II : 25 - 30 %

Sum organic substances class III : 50 - 55 %

Water pollution classification

Class : 2 according VwVwS

Poisonous law (CH)

Giftklasse: 4, BAGT-Nr: 616 084

Other regulations

Observe UVV for handling of painting material (VBG 23). See also "recommendations for the handling of aromatic isocyanates". (BG-chemistry MO44).

16. Other information

Areas of use / restrictions on use recommended by the manufacturer

Coating material - use only according to the Technical Information of the product.

Further information

The details in this material safety data sheet satisfy national and EU legislation. We have no knowledge or control over the user´s working conditions however. The product may not be used for any purpose other than that specified in chapter 16 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

Relevant changes

14. Land transport ADR/RID and GGVS/GGVE · 14. Maritime transport IMDG/GGVSea · 14. Technical name · 14. Air transport ICAO-TI and IATA-DGR · 14. Technical name · 15. Danger symbol and danger designation · 15. R-phrases · 15. S-phrases · 15. Verordnung über brennbare Flüssigkeiten

R-Phrases of components

20	Harmful by inhalation
20/21	Harmful by inhalation and in contact with skin
22	Harmful if swallowed
24/25	Toxic in contact with skin and if swallowed
34	Causes burns
37/38	Irritating to respiratory system and skin
38	Irritating to skin
41	Risk of serious damage to eyes
67	Vapours may cause drowsiness and dizziness

APPROVED :**M BAXTER**

RELEASED :**M BAXTER**