

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product form : Mixture
Trade name : Bauder Vlieskleber 1014
Type of product : Glue

1.2. Relevant identified uses of the substance or mixture and uses advised against**1.2.1. Relevant identified uses**

Main use category : Industrial uses.,Professional use,Consumer uses
Industrial/Professional use spec : Adhesive

Title	Use descriptors
Uses in Coatings (3)	SU3, PC1, PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC10, PROC13, PROC15, ERC4, ESVOC SPERC 4.3a.v1
Uses in Coatings (3)	SU3, PC1, PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC15, ERC4, ESVOC SPERC 4.3a.v1
Uses in Coatings	SU22, PC1, PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19, ERC8a, ERC8d, ESVOC SPERC 8.3b.v1
Uses in Coatings	SU22, PC1, PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC15, ERC8a, ERC8d, ESVOC SPERC 8.3b.v1
Uses in Coatings	SU21, PC1, PC4, PC5, PC9a, PC10, PC15, PC18, PC23, PC24, PC31, PC34, ERC8a, ERC8d, ESVOC SPERC 8.3c.v1

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Paul Bauder GmbH & Co. KG
Korntaler Landstraße 63
70499 Stuttgart - DEUTSCHLAND
T 0049 (0) 711/8807-0 - F 0049 (0) 711/8807-300

1.4. Emergency telephone number

Emergency number : 0049 (0) 30 30686 790
www.giftnotruf.de

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Acute Tox. 4 (Inhalation) H332
Skin Irrit. 2 H315
Eye Irrit. 2 H319
Resp. Sens. 1A H334
Skin Sens. 1 H317
Carc. 2 H351
STOT SE 3 H335
STOT RE 2 H373

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

Reacts slowly with water (moisture) and forms carbon dioxide: pressure rise and possible bursting of container. This reaction is accelerated on exposure to high temperatures. Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Slightly irritating to eyes, respiratory system and skin. May cause sensitization by inhalation and by skin contact. This product is irritating to the respiratory tract and may cause sensitization: Repeated inhalation of vapor or aerosol concentrations above the occupational exposure limit could cause respiratory hypersensitivity. People who are hypersensitive to MDI, even at very low concentrations, may specifically react violently. The breathing difficulties can sometimes be developed a number of hours after the exposure.

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according to Regulation (EC) No. 453/2010

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS07

GHS08

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
H373 - May cause damage to organs (Respiratory tract) through prolonged or repeated exposure (if inhaled.)

Precautionary statements (CLP) :

P260 - Do not breathe vapours, spray
P280 - Wear protective gloves, protective clothing, eye protection
P285 - In case of inadequate ventilation wear respiratory protection
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 - Call a POISON CENTER or doctor/physician if you feel unwell

EUH phrases :

EUH204 - Contains isocyanates. May produce an allergic reaction

Extra phrases :

Hazardous ingredients: Isocyanic acid, polymethylenepolyphenylene ester, polymer with methyloxirane polymer with oxirane ether with 1,2,3-propanetriol.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Isocyanic acid, polymethylenepolyphenylene ester	(CAS No) 9016-87-9 (EC index no) Polymer	<= 100	Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1A, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Catalyst	(CAS No) 6425-39-4	<= 0,3	Skin Corr. 1C, H314 Eye Dam. 1, H318

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation :

Remove the victim into fresh air. In case of respiratory collapse: apply mouth-to-mouth resuscitation. Take medical advice. Treatment is symptomatic for primary irritation or bronchospasm.

First-aid measures after skin contact :

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Take victim to a doctor if irritation persists. An MDI study has demonstrated that a polyglycol-based skin cleanser or corn oil may be more effective than soap and water.

First-aid measures after eye contact :

Rinse immediately with plenty of water for 15 minutes. Seek medical advice.

First-aid measures after ingestion :

Never give anything by mouth to an unconscious person. Consult a doctor/medical service if you feel unwell. Rinse mouth.

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4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation	: May cause sensitization by inhalation. Irritation of the eye, nose, throat en lungs. May cause respiratory irritation. This product is irritating to the respiratory tract and may cause sensitization: Repeated inhalation of vapor or aerosol concentrations above the occupational exposure limit could cause respiratory hypersensitivity. People who are hypersensitive to MDI, even at very low concentrations, may specifically react violently. The breathing difficulties can sometimes be developed a number of hours after the exposure.
Symptoms/injuries after skin contact	: Irritating to skin. May cause sensitization by skin contact.
Symptoms/injuries after eye contact	: Irritating to eyes.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment and supportive therapy as indicated. Exposure to high concentrations: supervision of a doctor is necessary during at least 48h after an accident happenend.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use extinguishing media containing water. If other agents are not available, water can be used, but only in large quantities. Water can react violently with hot isocyanate. Prevent washings from entering the sewer system, in case of fire: keep container cool by spraying with water.

5.2. Special hazards arising from the substance or mixture

Reactivity in case of fire	: No data available.
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5.3. Advice for firefighters

Precautionary measures fire	: Evacuate all personnel that isn't necessary.
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment. Exercise caution when fighting any chemical fire.
Protection during firefighting	: Use a self-contained breathing apparatus and also a protective suit. Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Due to reaction with water producing CO ₂ -gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Containers may burst if overheated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Mark the danger area. Do not inhale vapour. Evacuate all personnel that isn't necessary. Avoid contact with skin and eyes. Shut off leaks if without risks. Prevent entry of product in public water, sewers or soil. Ensure adequate ventilation.
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6.1.1. For non-emergency personnel

Protective equipment	: Use protective clothing. See Heading 8.
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6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing and gloves. Equip cleanup crew with proper protection.
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6.2. Environmental precautions

Do not flush into surface water or sewer system. Prevent entry of product in public water, sewers or soil.

6.3. Methods and material for containment and cleaning up

For containment	: Shut off leaks if without risks. Contain released substance, pump into suitable containers. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
Methods for cleaning up	: Wash down leftovers with plenty of water.
Other information	: Wastes, including emptied containers, should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act. Test atmosphere for MDI.

6.4. Reference to other sections

Exposure controls and personal protection. See Heading 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: ventilate the area, if necessary: Ventilation, local exhaust, or breathing protection. Personnel with a history of asthma-type conditions, bronchitis or skin sensitisation conditions should not work with MDI based products.
Precautions for safe handling	: Use only outdoors or in a well-ventilated area. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required.
Handling temperature	: 5 - 40 °C

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Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Store in a dry place. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Heat sources.

Storage temperature : 2 - 40 °C

Storage area : LGK 12: Non-combustible liquids not elsewhere defined (D).

Special rules on packaging : Do not reseal the package if the content is contaminated. As a result of reaction with water, whereby CO₂ gas is produced, a dangerous pressure may arise if contaminated containers are closed again. meet the legal requirements.

7.3. Specific end use(s)

Glue.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Bauder Vlieskleber 1014	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	50 mg/kg bodyweight/day
Acute - systemic effects, inhalation	0,1 mg/m ³
Acute - local effects, dermal	28,7 mg/cm ²
Acute - local effects, inhalation	0,1 mg/m ³
Long-term - systemic effects, inhalation	0,05 mg/m ³
Long-term - local effects, inhalation	0,05 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	25 mg/kg bodyweight
Acute - systemic effects, inhalation	0,05 mg/m ³
Acute - systemic effects, oral	20 mg/kg bodyweight
Acute - local effects, dermal	17,2 mg/cm ²
Acute - local effects, inhalation	0,05 mg/m ³
Long-term - systemic effects, inhalation	0,025 mg/m ³
Long-term - local effects, inhalation	0,025 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	0,1 mg/l
PNEC (Soil)	
PNEC soil	1 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1 mg/l

8.2. Exposure controls

Appropriate engineering controls : Local exhaust and general ventilation must be adequate to meet exposure standards. The odor threshold of MDI is far above the occupational exposure value.

Personal protective equipment : Gloves. In case of splash hazard: safety glasses. Protective clothing.

Materials for protective clothing : butyl rubber. chlorinated polyethylene. neoprene. PVC. viton

Hand protection : Wear suitable gloves. (EN 374) Penetration time: PVA: 240-480', Butylrubber: <60', Polyethyleen: >480'. In case of short term contact PVC-gloves may be used

Eye protection : Wear security glasses when the product is being sprayed or may splash.

Skin and body protection : Standard working clothes. Remove contaminated clothing immediately

Respiratory protection : In case of inadequate ventilation wear respiratory protection



Environmental exposure controls : See section 6,7, 12 en 13.

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Consumer exposure controls	: 1. Shall not be placed on the market after 27 December 2010, as a constituent of mixtures in concentrations equal to or greater than 0,1 % by weight of MDI for supply to the general public, unless suppliers shall ensure before the placing on the market that the packaging: (a) contains protective gloves which comply with the requirements of Council Directive 89/686/EEC [9]; (b) is marked visibly, legibly and indelibly as follows, and without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures:—"Persons already sensitised to diisocyanates may develop allergic reactions when using this product.—Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.—This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used."
Other information	: Medical supervision of all employees who handle or come in contact with respiratory sensitisers is recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Brown.
Boiling point	: > 300 °C
Flash point	: 186 °C
Auto-ignition temperature	: 600 °C
Relative vapour density at 20 °C	: > 1
Relative density	: 1,11
Viscosity, kinematic	: 2500 - 3200 25°C

9.2. Other information

VOC content	: 0 %
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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Due to reaction with water producing CO₂-gas.

10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. nitrogen oxides (NO_x). hydrocarbons.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Inhalation: Harmful if inhaled.

Bauder Vlieskleber 1014	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 inhalation rat (mg/l)	0,49 g/m ³ 4 hours
ATE CLP (dust,mist)	0,490 mg/l/4h

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
LD50 oral rat	> 10000 mg/kg
LD50 dermal rabbit	> 9400 mg/kg
LC50 inhalation rat (mg/l)	0,49 g/m ³ 4 hours

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Can cause sensibility after inhalation
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.

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Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: May cause damage to organs (Respiratory tract) through prolonged or repeated exposure (if inhaled.).
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Prevent soil and water pollution.

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
EC50 Daphnia 1	> 1000 mg/l DAPHNIA 96u
EC50 other aquatic organisms 1	> 50 mg/l 3u ALGAE
NOEC (chronic)	> 10 mg/l DAPHNIA

12.2. Persistence and degradability

Bauder Vlieskleber 1014	
Persistence and degradability	Not readily biodegradable.

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
Persistence and degradability	Not readily biodegradable.

12.3. Bioaccumulative potential

Bauder Vlieskleber 1014	
Bioaccumulative potential	High.

Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	
BCF other aquatic organisms 1	200 mg/kg
Bioaccumulative potential	High.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
Isocyanic acid, polymethylenepolyphenylene ester (9016-87-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : insoluble in water

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations. Remove to an authorized waste treatment plant. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Additional information : Do not allow water (or moist air) contact with this material.

European List of Waste (LoW) code : 08 05 01* - waste isocyanates
16 03 05* - organic wastes containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No.(IATA)	: Not applicable
UN-No.(ADN)	: Not applicable
UN-No. (RID)	: Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable

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Proper Shipping Name (RID) : Not applicable
Transport document description (ADR) : Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable
Packing group (ADN) : Not applicable
Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

14.6. Special precautions for user

14.6.1. Overland transport

14.6.2. Transport by sea

14.6.3. Air transport

14.6.4. Inland waterway transport

Not subject to ADN : No

14.6.5. Rail transport

Carriage prohibited (RID) : No

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

Contains no substances with Annex XVII restrictions
Bauder Vlieskleber 1014 is not on the REACH Candidate List
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances

VOC content : 0 %
Other information, restriction and prohibition regulations : (D) GIS-CODE: PU40 sensibilisierend. PU-Systeme, lösemittelfrei, gesundheitsschädlich,

15.1.2. National regulations

Germany

Water hazard class (WGK) : 1 - low hazard to waters

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WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS)

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Data sources : The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty.

Other information : 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. (D) GIS-CODE: PU40 PU-Systeme, lösemittelfrei, gesundheitsschädlich, sensibilisierend.

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

Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Resp. Sens. 1A	Sensitisation — Respiratory, category 1A
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
R20	Harmful by inhalation
R36/37/38	Irritating to eyes, respiratory system and skin
R36/38	Irritating to eyes and skin
R40	Limited evidence of a carcinogenic effect
R42	May cause sensitization by inhalation
R43	May cause sensitisation by skin contact
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
Xi	Irritant
Xn	Harmful
ERC4	Industrial use of processing aids in processes and products, not becoming part of articles
ERC8a	Wide dispersive indoor use of processing aids in open systems
ERC8d	Wide dispersive outdoor use of processing aids in open systems
ESVOC SPERC 4.3a.v1	Uses in Coatings (SU3)
ESVOC SPERC 8.3b.v1	Uses in Coatings: Professional (SU22)
ESVOC SPERC 8.3c.v1	Uses in Coatings: Consumer (SU21)
PC1	Adhesives, sealants
PC10	Building and construction preparations not covered elsewhere.
PC15	Non-metal-surface treatment products
PC18	Ink and Toners
PC23	Leather tanning, dye, finishing, impregnation and care products
PC24	Lubricants, Greases and Release Products
PC31	Polishes and Wax Blends
PC34	Textile dyes, finishing and impregnating products; including bleaches and other processing aids
PC4	Anti-Freeze and De-icing products
PC5	Artists Supply and Hobby preparations.

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PC9a	Coatings and paints, thinners, paint removers
PROC1	Use in closed process, no likelihood of exposure
PROC10	Roller application or brushing
PROC11	Non industrial spraying
PROC13	Treatment of articles by dipping and pouring
PROC15	Use as laboratory reagent
PROC19	Hand-mixing with intimate contact and only PPE available
PROC2	Use in closed, continuous process with occasional controlled exposure
PROC3	Use in closed batch process (synthesis or formulation)
PROC4	Use in batch and other process (synthesis) where opportunity for exposure arises
PROC5	Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)
PROC7	Industrial spraying
PROC8a	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non dedicated facilities
PROC8b	Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities
SU21	Consumer uses: Private households (= general public = consumers)
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3	Industrial uses: Uses of substances as such or in preparations* at industrial sites

SDS EU (REACH Annex II)

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