

PRODUCT-No.: 500031

Date: 18.05.09 Revision date: 09.02.09 page: 1/6

1. IDENTIFICATION OF THE SUBSTANCE/ PREPARATION AND OF THE COMPANY

Product Name and Code: **500031**

STRATO 462

2-C. PU Sealer, water based

Recommended intended purpose: Industrial Coating

Name of the company:

Eukula GmbH
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Information-giving Area:

Productsecurity

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2. HAZARDS IDENTIFICATION

Danger designation: not applicable

Special dangers for humans and environment:
not applicable

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characteristic: Preparation based on a watery
polyurethane-dispersion

Dangerous substances:

EINECS-No.	Name	Symbol	Conc. %
CAS-No.	R phrases		
203-961-6	2-(2-butoxyethoxy)ethanol		
112-34-5	36	Xi	0.5 < 2.5
202-436-9	1,2,4-trimethylbenzene		
95-63-6	10-20-36/37/38-51/53	Xn, N	< 0.5

(See full text of R phrases under chapter 16)

4. 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.

Inhalation :

Remove to fresh air, keep patient warm and at rest, if breathing is
irregular or stopped, administer artificial respiration. Give nothing by
mouth. If unconscious place in recovery position and seek medical advice.

Eye contact :

Irrigate copiously with clean, fresh water for at least 10 minutes, holding
the eyelids apart and seek medical advice.

PRODUCT-No.: 500031

Date: 18.05.09 Revision date: 09.02.09 page: 2/6

Skin contact :

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do not use solvents or thinners.

Ingestion :

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

alcohol resistant foam, CO₂, powders, waterspray

Extinguishing media which must not be used for safety reason:
waterjet

Special exposure hazards arising the substance or preparation
itself, combustion products, resulting gases:

Due to the organic solvents' content of the preparation,
fire will produce dense black smoke. Exposure to decomposition
products may cause a health hazard.

Special protective equipment for fire-fighters:

Additional information:

Cool closed containers exposed to fire with water.

Do not allow runoff from fire fighting to enter drains or water
courses.

6. ACCIDENTAL RELEASE MEASURES

Due to the organic solvents' content of the preparation :

Exclude sources of ignition and ventilate the area. Avoid breathing vapours.
Refer to protective measures listed in sections 7 and 8. 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). Do not allow to enter
drains or watercourses.

Clean preferably with a detergent; avoid use of solvents.

If the product contaminates lakes, rivers or sewages, inform appropriate
authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Handling

Due to the organic solvents' content of the preparation :

Vapours are heavier than air and may spread along floors. Vapours may form
explosive mixtures with air. Prevent the creation of flammable or explosive
concentrations of vapour in air and avoid to vapour concentration higher
than the occupational exposure limits.

Additionally, the product should only be used in areas from which all naked
lights and other sources of ignition have been excluded. Electrical
equipment should be protected to the appropriate standard.

Keep container tightly closed. Isolate from sources of heat, sparks and open
flame. No sparking tools should be used.

Avoid skin and eye contact. Avoid inhalation of vapour and spray mist.

Smoking, eating and drinking are forbidden in application area.

Comply with the health and safety at work laws.

Always keep in containers of same material as the original one.

For personal protection see Section 8.

Never use pressure to empty : container is not a pressure vessel.

PRODUCT-No.: 500031

Date: 18.05.09 Revision date: 09.02.09 page: 3/6

Storage

Observe label precautions. Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat and direct sunlight.

Due the organic solvents' content of the preparation :

Keep away from sources of ignition. Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8.EXPOSURE CONTROLS/ PERSONAL PROTECTION

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 particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

Exposure Limits

Occupational exposure limit for :

EINECS-No.	Names	STEL	LTEL
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Personal Protection

European Union guidelines and BG rules of the professional associations considers.

Respiratory protection:

If the concentration is because of organic solvents, gases and steams over the job limit values, then a respirator certified for this purpose must be carried (type of gas filter A, identification colour code brown), e.g. half mask FFA2 to be carried.

Hand protection:

Wear suitable safety gloves with the work. Suitably a chemical protection glove examined after DIN/EN 374 is e.g. glove material: Nitrile rubber, Latex, PVC material thickness $\geq 0,4\text{mm}$, break-through time: ≥ 30 min. contaminated and worn out gloves have to be replaced. The user has to examine and consider the applicability of the selected safty gloves in accordance with the instructions and the information of the glove manufacturers for the individual use conditions. Missing skin fat is to replace by containing

Eye protection:

Use safety eyewear designed to protect against splash of liquids.

Skin protection:

All parts of the body should be washed after contact.

9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance

form : liquid

colour: colorless

smell : typical

PRODUCT-No.: 500031

Date: 18.05.09 Revision date: 09.02.09 page: 4/6

Important health, safety and environmental information

Parameter	Value	Method/Remark
Flash point	> 100	°C
Viscosity	> 16 s 4 mm	cup by 20°C
Density	1.04	g/cm ³ by 20°C calculated
Explosion limit	lower 1.1	Vol.%
	upper 10.4	Vol.%
Water solubility	soluble in water	
Boiling point	100	°C
Vapour pressure	0.03	mbar
pH-value	-	
Ignition temperature	205	°C
Solvent content	apporx. 7	by weight VOC/organic
Water content	approx. 61	by weight

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions. (See section 7)
When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

11. TOXIKOLOGICAL INFORMATION

There are no data available on the preparation itself.
Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effect such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system.
Symptoms and signs include headache; dizziness, fatigue, muscular weakness, drowsines and in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.
The liquid splashed in the eyes may cause irritation and reversible damage.

12. ECOLOGICAL INFORMATION

There are no data available on the preparation itself.
The product should not be allowed to enter drains or water courses.
The preparation was evaluated on the basis the conventional method of the preparing guideline (1999/45/EG) and was not classified as environmental dangerous.

13. DISPOSAL CONSIDERATION

Do not allow into drains or water courses.
Empty containers are to be deposited according to the official rules.
Dispose of in accordance with applicable local, state and federal regulations.

PRODUCT-No.: 500031

Date: 18.05.09 Revision date: 09.02.09 page: 5/6

14. TRANSPORT INFORMATION

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

ADR/RID:

ADR-RID-Class: not applicable
Tremcard: not applicable
UN-Number: not applicable
Transport document name:
item:
Packaging group: not applicable

IMDG:

IMDG-Class: not applicable
Tremcard: not applicable
EmS: not applicable
UN-Number: not applicable
Packaging group: not applicable

Marine pollutant: not applicable

ICAO/IATA:

ICAO/ IATA-Class: not applicable
UN-Number: not applicable

Packaging group: not applicable

15. REGULATORY INFORMATION

The requirements of the Classification Packaging and Labelling of Dangerous Substances Regulations.

The product is labelled as follows :

Danger classification :

Contains:
not applicable

R-phrases:
not applicable

S-phrases:

38 In case of insufficient ventilation, wear suitable
respiratory equipment.
23 Do not breathe vapour.

other phrases:
not applicable

Information about VOC-Directive, ASTM D-3960-1:

VOC = 191.013g/l

16. Other information

Full text of R phrases appearing in section 3 :

PRODUCT-No.: 500031

Date: 18.05.09 Revision date: 09.02.09 page: 6/6

- 36 Irritating to eyes.
- 10 Flammable.
- 20 Harmful by inhalation.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information of this MSDS is based on the present state of our knowledge and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction.

It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this MSDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties. The statements given in the safety data sheets of our product groups are average values as they depend on the colour shade.

The information in this Safety Data Sheet is required pursuant to Dangerous Substances Regulations 26.10.1993.
