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Material Safety Data Sheet acc. to ISO/DIS 11014

Printing date 05/21/2002

Reviewed on 05/13/2002

1 Identification of substance

· Product details

· Trade name: <u>D-560S</u>

· Manufacturer/Supplier: EFTEC AG Hofstrasse 31 CH-8590 Romanshorn, Switzerland

· Information department: +41(0)71 466 43 00 Customer Support Laboratory

• Emergency information: +41(0)1 251 51 51 Swiss Toxicological Information Centre

2 Composition/Data on components

 \cdot Chemical characterization

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

78-93-3	butanone	25-50%
63368-95-6	Aromatisches-aliphatisches Polyisocyanat in Butylacetat	25-50%
123-86-4	n-butyl acetate	10-25%
872-50-4	N-methyl-2-pyrrolidone	2.5-10%
4435-53-4	3-methoxybutyl acetate	2.5-10%

3 Hazards identification

- · Hazard description:
- Irritant

Highly flammable

· Canadian Hazard Symbols



• Information pertaining to particular dangers for man and environment: Highly flammable.

In use, may form flammable/explosive vapour-air mixture.

Irritating to eyes. Contains isocyanates. See information supplied by the manufacturer.

• Classification system:

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

· NFPA ratings (scale 0 - 4)



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· HMIS-ratings (scale 0 - 4)

HEALTHHealth = 3FIREFire = 3REACTIVITYReactivity = 0

4 First aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.

5 Fire fighting measures

• Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

- · For safety reasons unsuitable extinguishing agents:
- Water
- Water with full jet
- Special hazards caused by the material, its products of combustion or resulting gases: Can form explosive gas-air mixtures.
- During heating or in case of fire poisonous gases are produced.
- · Protective equipment: Mount respiratory protective device.

6 Accidental release measures

· Person-related safety precautions:

- Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.
- · Measures for environmental protection:
- Prevent seepage into sewage system, workpits and cellars. Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents

7 Handling and storage

· Handling:

- · Information for safe handling:
- No special measures required.
- $\label{eq:Ensuregeod} \textit{Ensure good ventilation/exhaustion at the workplace}.$
- Prevent formation of aerosols.
- · Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke.
- Protect against electrostatic charges.

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Keep respiratory protective device available.

· Storage:

• Requirements to be met by storerooms and receptacles: Store in a cool location.

· Information about storage in one common storage facility: Not required.

 \cdot Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· Class according to regulation on flammable liquids: A I

8 Exposure controls and personal protection

· Additional information about design of technical systems: No further data; see item 7.

\cdot Components with limit values that require monitoring at the workplace:
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78-93-3 butanone

- PEL 590 mg/m³, 200 ppm PEL Short term value: 885 mg/m
- REL Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm
- TLV Short-term value: 885 mg/m³, 300 ppm Long-term value: 590 mg/m³, 200 ppm
 - BEI

123-86-4 n-butyl acetate

PEL 710 mg/m³, 150 ppm

- REL Short-term value: 950 mg/m³, 200 ppm
- Long-term value: 710 mg/m³, 150 ppm TLV Short-term value: 950 mg/m³, 200 ppm
 - Long-term value: 713 mg/m³, 150 ppm

· Additional information: The lists that were valid during the creation were used as basis.

· Personal protective equipment:

• General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

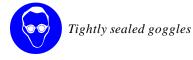
Avoid contact with the eyes and skin.

• Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· Protection of hands: Not required.

• Eye protection:



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Form:	Liquid
Color:	Yellow
Odor:	Characteristic
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	79°C (174°F)
Flash point:	$-4^{\circ}C(25^{\circ}F)$
Ignition temperature:	270°C (518°F)
Auto igniting:	Product is not selfigniting.
Danger of explosion:	In use, may form flammable/explosive vapour-air mixture.
Explosion limits:	
Lower:	1.8 Vol %
Upper:	11.5 Vol %
Vapor pressure at 20°C (68°F):	105 hPa
Density:	Not determined.
Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Solvent content:	
Organic solvents:	61.8 %

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided:

- No decomposition if used according to specifications.
- · Dangerous reactions No dangerous reactions known.
- · Dangerous products of decomposition: No dangerous decomposition products known.

11 Toxicological information

- Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- The product shows the following dangers according to internally approved calculation methods for preparations:
- Irritant.

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12 Ecological information

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- · Product:
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

DOT regulations:		
R-AMMABLE LOUID		
Hazard class:	3	
Identification number:	UN1866	
Packing group:	II	
Proper shipping name (technico	al name): Resin solution	
Label	3	
Land transport ADR/RID (cros	ss-border):	
ADR/RID class:	3 Flammable liquids	
Item:	5b	
Danger code (Kemler):	33	
UN-Number:	1866	
Description of goods:	1866 Resin solution	
Maritime transport IMDG:		
RAMMAÈLE LOUID		
	3.2	
IMDG Class:	3230	
	3230	
IMDG Class: Page: UN Number:	5250 1866	
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EMS Number:	<u>3-07</u>	
MFAG:	310	
Marine pollutant:	No	
Propper shipping name:	Resin solution	
RAMMARE LOUD		
3		
ICAO/IATA Class:	3	
ICAO/IATA Class: UN/ID Number:	1866	
ICAO/IATA Class: UN/ID Number: Label	-	
ICAO/IATA Class: UN/ID Number:	1866	

15 Regulations

Section 355 (extremely hazardous substances):	
None of the ingredient is listed.	
Section 313 (Specific toxic chemical listings):	
78-93-3 butanone	
872-50-4 N-methyl-2-pyrrolidone	
TSCA (Toxic Substances Control Act):	
78-93-3 butanone	
123-86-4 n-butyl acetate	
872-50-4 N-methyl-2-pyrrolidone	
4435-53-4 3-methoxybutyl acetate	
Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity:	
None of the ingredients is listed.	
Cancerogenity categories	
EPA (Environmental Protection Agency)	
78-93-3 butanone D	
IARC (International Agency for Research on Cancer)	
None of the ingredients is listed.	
NTP (National Toxicology Program)	
None of the ingredients is listed.	
TLV (Threshold Limit Value established by ACGIH)	
77-58-7 dibutyltin dilaurate A4	

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· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Product related hazard informations:

The product has been classified and marked in accordance with directives on hazardous materials.

· Hazard symbols:



Irritant Highly flammable

· Risk phrases:

Highly flammable. In use, may form flammable/explosive vapour-air mixture. Irritating to eyes.

• Safety phrases:

Keep container tightly closed and in a well-ventilated place. Keep away from sources of ignition - No smoking. Do not breathe gas/fumes/vapour/spray. Avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. This material and its container must be disposed of as hazardous waste.

· Special labeling of certain preparations:

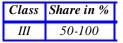
Contains isocyanates. See information supplied by the manufacturer.

· National regulations:

The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.

· Classification according to VbF: A I

· Technical instructions (air):



• Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS: Customer Support Laboratory

· Contact: H. Perler