

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:** **D-560M**
- **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

- **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)**



(Contd. on page 2)

- USA

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/21/2002

Reviewed on 05/13/2002

Trade name: D-560M

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)



Health = 3

Fire = 3

Reactivity = 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.
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.

(Contd. on page 3)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/21/2002

Reviewed on 05/13/2002

Trade name: D-560M

(Contd. of page 2)

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.
- **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.

- **Components with limit values that require monitoring at the workplace:**

78-93-3 butanone

PEL	590 mg/m ³ , 200 ppm
REL	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm
TLV	Short-term value: 885 mg/m ³ , 300 ppm Long-term value: 590 mg/m ³ , 200 ppm
BEI	

123-86-4 n-butyl acetate

PEL	710 mg/m ³ , 150 ppm
REL	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 950 mg/m ³ , 200 ppm Long-term value: 713 mg/m ³ , 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:**



Tightly sealed goggles

USA

(Contd. on page 4)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/21/2002

Reviewed on 05/13/2002

Trade name: D-560M

(Contd. of page 3)

9 Physical and chemical properties

· 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°C (25°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.

USA

(Contd. on page 5)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/21/2002

Reviewed on 05/13/2002

Trade name: D-560M

(Contd. of page 4)

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.

14 Transport information

· **DOT regulations:**



- **Hazard class:** 3
- **Identification number:** UN1866
- **Packing group:** II
- **Proper shipping name (technical name):** Resin solution
- **Label:** 3

· **Land transport ADR/RID (cross-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:**



- **IMDG Class:** 3.2
- **Page:** 3230
- **UN Number:** 1866
- **Label:** 3
- **Packaging group:** II

(Contd. on page 6)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/21/2002

Reviewed on 05/13/2002

Trade name: D-560M

(Contd. of page 5)

· EMS Number:	3-07
· MFAG:	310
· Marine pollutant:	No
· Proper shipping name:	Resin solution

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class:	3
· UN/ID Number:	1866
· Label	3
· Packaging group:	II
· Proper shipping name:	Resin solution

15 Regulations

· Sara

· 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

(Contd. on page 7)

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 05/21/2002

Reviewed on 05/13/2002

Trade name: D-560M

(Contd. of page 6)

· **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):**

Class	Share in %
III	50-100

· **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**