



1.

**MultiEx B11 (old: 2P-8013-3)**

W. Kolb Fertigungstechnik GmbH, Karl-Arnold-Str. 12, D-47877 Willich, Tel. +49 2154 947938

**2. COMPOSITION/ INFORMATION ON INGREDIENTS****2.2 Chemical Ingredients**

2.2.1 Description: Subject to regulations EG 648/2004 VO the product contains: Alcylpropylenglycoles, amines, inhibitors, foam regulators, pH-regulators

2.2.2 Components contributing to hazard	2.2.3 CAS-No.	2.2.4 Contents	Risk Phrases
2-aminoethanol	141-43-5	<10% Xn	C, R20/21/22-34

2.2.6 Additional information:

**3. HAZARDS IDENTIFICATION**

Special dangers for individuals and environment none known. Local irritations on skin possible.

**4. FIRST-AID MEASURES****4.1 General Information :**

**4.2 Inhalation** : Ensure fresh air if you feeling unwell.

**4.3 Skin contact** : Flush with copious water and soap. Use skin creme.

**4.4 Eye contact** : Flush with copious water for a east 10 minutes, with open eye. Call physician at once.

**4.5 Ingestion** : Call physician at once.

**4.6 Note to physician** : No specific antidot known. Treatment as per condition of patient.

**5. FIRE-FIGHTING MEASURES****5.1 Specific fire or exposition hazards:**

Water, carbon dioxide, dry powder, foam, remove containers from fire area.

**5.2 Protection of Firefighters:**

Carry portable compressed air breathing apparatus respectively ambient-air independent respirator and always wear fire-resistant clothing

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions** : Wear protection clothes

**6.2 Environmental Precautions** : Keep away from drains, surface water, ground water and soil.

**6.3 Methods of cleaning up** : Absorb with sand or other binding material

**6.4 Additional information** :

**7. HANDLING AND STORAGE****7.1 Handling**

Use in well-ventilated areas. Keep containers closed when not in use.

**7.2 Storage**

Keep in well-ventilated areas away from heat or ignition source, this should be done in accordance with the applicable laws and regulations

**8. EXPOSURE CONTROLS/ PERSONAL PROTECTION****8.1 Engineering controls**

see to good ventilation, especially in closed spaces.

**8.2 Exposure guidelines**

8.2.1 CAS-No.

8.2.2 Additional information:

**8.3 Personal protective equipment**

8.3.1 General Protection:

8.3.2 Respiratory protect.: In case of irritation of respiratory system use admitted filtration unit

8.3.3 Hand protection: Solvent resistant gloves

8.3.4 Eye/Face protection: Wear safety glasses with side-shields

8.3.5 Skin protection: Long sleeved clothing

**9. PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Appearance: liquid

9.1.2 Colour: transparent

9.1.3 Odour : neutral

**9.2** **Method (67/548/EWG)**

9.2.1 Change of condition : 180 - 243 °C

9.2.2 Flash point : see 9.2.15 °C

9.2.3 Flammability : °C

9.2.4 Auto-ignition temp. :

9.2.8	Vapour pressure at 20,0 °C	:	0,09		hPa
9.2.9	Density at 20,0 °C	:	0,955		g/cm3
9.2.10	Solution in water at 20,0 °C	:	unlimited		mg/l
9.2.11	pH at 20 °C	:	10,9	at 400,0	g/l
9.2.12	LogP (n-octanol/water)	:			1g POW
9.2.13	Viscosity at 20,0 °C	:	18,0		mPas

9.2.14: not applicable  
 9.2.15:  
 nonflammable substance like the  
 Ordinance on Hazardous  
 Substances §4 (GefStoffV)

## 10. STABILITY AND REACTIVITY

- 10.1 **Chemical stability** :  
 10.2 **Materials to avoid** : oxidants  
 10.3 **Hazardous decomposition products:** not known

## 11. TOXICOLOGICAL INFORMATION

- 11.1 **Acute toxicity**  
 11.1.1 Ingestion LD/LC50 : 30200 mg/ka rat oral  
 11.1.2 Skin : non known  
 11.1.3 Inhalation : low  
 11.1.4 Sensibilisierung : none  
 11.3 **Irritation Skin/ Eye** : no negative impact known  
 11.4 **Addition information** : InVitro Mutagen tests showed negative results

## 12. ECOLOGICAL INFORMATION

- 12.1 **Degradation** : Elimination 60% 20 days - 91,2 - 28 days ASTM  
 12.2 **Mobility and bioaccumulation potential** :  
 Aquatic toxicity : low

- 12.4 **Additional information**  
 12.4.1 CSB (mg/g) : not defined  
 12.4.2 BSB5 (mg/g) :  
 12.4.3 AOX : free  
 12.4.4 No heavy metal ingredients like the ECC-spezifikation no. 76/464 EWG

## 13. DISPOSAL CONSIDERATIONS

- 13.1 **Disposal** Local requirements and directives have to be obeyed.  
 EAK 070604, 140303 (detergent solution)  
 13.2 **Contaminated packaging**

## 14. TRANSPORT INFORMATION

- 14.1 **ADR/ RID and GGVS/GGVE**  
 14.1.1 GGVS-Classification: / 14.1.2 UN-No.:  
 14.1.3 Chemical name:  
 14.2 **Transport/ additional information** no dangerous substance as per the above.

## 15. REGULATORY INFORMATION

- 15.1 **EEC Classification and User Label Information**  
 15.1.1 Hazard Symbol : no dangerous substance as per GefStoffV  
 15.1.2 Chemical name :  
 15.1.3 Risk Phrases: Not applicable  
 15.1.4 Safety Phrases: Not applicable  
 15.1.5 Special classification like II 89/379/EEC none

## 16. NATIONALE INSTRUCTIONS (only for Germany)

- 16.1.1 Beschäftigungsbeschränkung : 16.1.2 VbF :  
 16.1.3 Störfallverordnung : 16.1.4 TA-Luft :  
 16.1.5 sonstige Vorschriften 16.1.6 Wassergefährdungsklasse :