

# SAFETY DATA SHEET

## \*DINITROL 560

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

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**PRODUCT NAME:** \*DINITROL 560

**IN-HOUSE No.:** ETA

**SYNONYMS, TRADE NAMES:** DINITROL PU N500

**CONTACT PERSON:** Contact in Sweden: Lena Almestrand 0451-88098

**EMERGENCY TELEPHONES:** In emergency call: +46 8 337043 (ERC No int)

**MANUFACTURER:** EFTEC AG  
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CH-8590 ROMANSHORN, SCHWEIZ  
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### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

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NAME	CAS No.:	CONTENT	SYMBOL:	RISK:
3-METHOXYBUTYL ACETATE	4435-53-4	1-10 %	Xi	R-36
BUTANONE	78-93-3	20-40 %	Xi	R-36, 66, 67
N-METHYL-2-PYRROLIDONE	872-50-4	5-15 %	Xi	R-36/38
n-BUTYL ACETATE	123-86-4	10-20 %	-	R-66, 67
POLYISOCYANATES		10-30 %	-	

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### 3. HAZARDS IDENTIFICATION:

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Highly flammable. Highly flammable. Irritating to eyes and skin. May cause sensitisation by inhalation. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. The classification of the product is based on Annex 1 of the substance directive (67/548/EEG) and ATP25

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### 4. FIRST AID MEASURES:

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**INHALATION:** Fresh air.

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<b>INGESTION:</b>	Contact physician.
<b>SKIN:</b>	Wash skin with soap and water.
<b>EYES:</b>	Rinse the eye with water immediately. Get medical attention if any discomfort continues.

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## 5. FIRE FIGHTING MEASURES:

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<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	Fire can be extinguished using: Water. Carbon dioxide (CO <sub>2</sub> ), powder or foam.
<b>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</b>	Toxic gases may be formed during a fire. Suitable respiratory protection equipment is then needed.

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## 6. ACCIDENTAL RELEASE MEASURES:

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<b>SPILL CLEANUP METHODS:</b>	Absorb in vermiculite, dry sand or earth and place into containers. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.
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## 7. HANDLING AND STORAGE:

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<b>USAGE PRECAUTIONS:</b>	Keep away from heat, sparks and open flame.
<b>STORAGE PRECAUTIONS:</b>	Stored at temperatures below +35°C

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

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INGREDIENT NAME:	CAS No.:	STD	ST EXP 15 Min	LT EXP 8 Hrs
N-METHYL-2-PYRROLIDONE	872-50-4	OES.	25 ppm(Sk)	75 ppm(Sk)
BUTANONE	78-93-3	OES.	200 ppm(Sk)	300 ppm(Sk)
n-BUTYL ACETATE	123-86-4		150	200

<b>RESPIRATORS:</b>	No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.
<b>PROTECTIVE GLOVES:</b>	Chemical resistant gloves required for prolonged or repeated contact.
<b>EYE PROTECTION:</b>	Wear approved chemical safety goggles where eye exposure is reasonably probable.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES:

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<b>APPEARANCE:</b>	Liquid.
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<b>COLOUR:</b>	Yellowish.		
<b>ODOUR/TASTE:</b>	Solvent.		
<b>BOILING POINT (°C, interval):</b>	80 - 200	<b>Pressure:</b>	
<b>DENSITY/SPECIFIC GRAVITY (g/ml):</b>	0.98	<b>Temperature (°C):</b>	20
<b>VAPOUR DENSITY (air=1):</b>	N/A		
<b>VAPOUR PRESSURE:</b>	103 mbar	<b>Temperature (°C):</b>	20
<b>EVAPORATION RATE:</b>	N/A	<b>Reference:</b>	
<b>pH-VALUE, DILUTED SOLUTION:</b>	N/A	<b>Concentration %M:</b>	
<b>VISCOSITY (interval):</b>	13 s	<b>Temperature (°C):</b>	20
<b>SOLUBILITY DESCRIPTION:</b>	Slightly soluble in: Organic solvents (most). Slightly soluble in water.		
<b>FLASH POINT (°C):</b>	< 21	<b>Method:</b>	CC (Closed cup).
<b>AUTO IGNITION TEMP. (°C):</b>	> 400		
<b>FLAMMABILITY LIMIT - LOWER(%):</b>	1.8		
<b>FLAMMABILITY LIMIT - UPPER(%):</b>	20		

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## 10. STABILITY AND REACTIVITY:

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<b>STABILITY:</b>	Normally stable. Avoid: Moisture.
<b>POLYMERIZATION DESCRIPTION:</b>	Avoid water.
<b>MATERIALS TO AVOID:</b>	Unspecified.

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## 11. TOXICOLOGICAL INFORMATION:

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<b>HEALTH WARNINGS:</b>	INHALATION: May cause headache, nausea, dizziness, tiredness. SKIN CONTACT: May be irritating and defatting  EYE CONTACT: May be irritating. INGESTION: May cause nausea
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## 12. ECOLOGICAL INFORMATION:

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<b>ECOLOGICAL INFORMATION:</b>	The product is not classified as harmful to the environment
<b>BIO ACCUMULATION:</b>	The solvent is not bioaccumulated.

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<b>DEGRADABILITY:</b>	The solvent is easily degradable
<b>ACUTE FISH TOXICITY:</b>	The solvent (buthyl acetate) is harmful to water living organisms[LC50(48h,guldid) 71-141 mg/l]. Available data indicate that only larger outlets would constitute a risk.
<b>WATER HAZARD CLASSIFICATION:</b>	WGK 1 (Estimation acc to GMBI 1996)

### 13. DISPOSAL CONSIDERATIONS:

#### GENERAL/CLEANING:

**DISPOSAL METHODS:** Dispose of in accordance with Local Authority requirements.

### 14. TRANSPORT INFORMATION:

<b>GENERAL:</b>	Not classified as dangerous goods
<b>UN No. ROAD:</b>	1866
<b>ADR CLASS No.:</b>	3-5B
<b>ADR CLASS:</b>	Class 3: Flammable liquids.
<b>PROPER SHIPPING NAME II:</b>	RESIN SOLUTION
<b>ROAD TRANSPORT NOTES:</b>	The product is classified as exempted quantites acc to ADR regulations when delivered in packaging of max 1000 ml or as aerosols.
<b>RID CLASS No.:</b>	3-5B
<b>UN No. SEA:</b>	1866
<b>IMDG CLASS:</b>	3:2
<b>IMDG PAGE No.:</b>	3278
<b>IMDG PACK GR.:</b>	II
<b>EmS No.:</b>	3-05
<b>MFAG TABLE No.:</b>	310
<b>MARINE POLLUTANT:</b>	No.
<b>SEA TRANSPORT NOTES:</b>	The product is classified as limited quantities acc to the IMO regulations when delivered in packaging of max 1000 ml (packgroup II), max 5000 ml (packgroup III) or as an aerosol (max 1000 ml).

### 15. REGULATORY INFORMATION:

**LABEL FOR SUPPLY:**

**RISK PHRASES:**

R-11 Highly flammable.  
R-36/38 Irritating to eyes and skin.  
R-66 Repeated exposure may cause skin dryness or cracking.  
R-67 Vapours may cause drowsiness and dizziness.  
R-42 May cause sensitisation by inhalation.

**SAFETY PHRASES:**

S-2 Keep out of reach of children.  
S-23 Do not breathe gas/fumes/vapour/spray.  
S-9 Keep container in a well ventilated place.  
S-51 Use only in well ventilated areas.  
S-46 If swallowed seek medical advice immediately and show this container label.  
S-16 Keep away from sources of ignition - No Smoking.

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**16. OTHER INFORMATION:**

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**USER NOTES:**

The information is based on our current level of knowledge and relates to the product in state in which it is delivered. It is intended to describe our product from the point of view of safety requirements and is not intended to guarantee any particular property.

**REVISION DATE:**

2000-09-13

**REV. No./REPL. SDS  
GENERATED:**970303

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