

Page 1/10

Safety data sheet

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 17.03.2016 Revision: 17.03.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: DINITROL 530

1.2 Relevant identified uses of the substance or mixture and uses advised against

Sector of Use SU3, SU17, SU21, SU22

Product category PC1 Adhesives, sealants

Process category PROC1-5, PROC7, PROC8a, PROC8b, PROC9-11, PROC13-14, PROC 19, PROC21

Environmental release category ERC5, ERC8c, ERC8d, ERC8f

Article category Not applicable

Application of the substance / the mixture Primer

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Hersteller/ Producer: EFTEC AG, Hofstrasse 31, CH-8590 Romanshorn

EU-Importeur/ EU-Importer: EFTEC Ltd., Rhigos/Aberdare, GB-Mid Glamorgan CF44 9UE (Responsible

for chemical registration in EU)

Lieferant/ Supplier: DINOL GmbH, Pyrmonterstrasse 76, D-32676 Lügde

Further information obtainable from: msds@dinol.com

1.4 Emergency telephone number:

Giftnotruf D-Berlin +49(0)30 30686 790 Beratung in Deutsch und Englisch.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36: Irritating to eyes.



Xi; Sensitising

R43: May cause sensitisation by skin contact.



F; Highly flammable

11: Highly flammable.

R67: Vapours may cause drowsiness and dizziness.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Has a narcotising effect.

(Contd. on page 2)

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 17.03.2016 Revision: 17.03.2016

Trade name: DINITROL 530

Classification system:

(Contd. of page 1)

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms





GHS02

02 GHS0

Signal word Danger

Hazard-determining components of labelling:

butanone

HMDI-Oligomere

n-butyl acetate

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

Precautionary statements

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

Additional information:

EUH204 Contains isocyanates. May produce an allergic reaction.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable. **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous compone	ents:		
CAS: 78-93-3	butanone	25-5	50%
EINECS: 201-159-0	★ Xi R36; № F R11		
	R66-67		
	🚸 Flam. Liq. 2, H225; 🚺 Eye Irrit. 2, H319; STOT SE 3, H336		
CAS: 123-86-4	n-butyl acetate	10-<	25%
EINECS: 204-658-1	R10-66-67		
	🚸 Flam. Liq. 3, H226; 🕠 STOT SE 3, H336		
		(Contd. on	page 3)

DACH

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 17.03.2016 Revision: 17.03.2016

Trade name: DINITROL 530

	(C	ontd. of page 2)
CAS: 28182-81-2	HMDI-Oligomere	1-5%
NLP: 500-060-2	X Xn R20; X Xi R37; X Xi R43	
	(1) Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 872-50-4	N-methyl-2-pyrrolidone	1-<5%
EINECS: 212-828-1	★ Xi R36/37/38	
	Repr. Cat. 2	
	Repr. 1B, H360D; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3 H335	,
SVHC		
872-50-4 N-methyl-2	2-pyrrolidone	
Additional informati	ion: For the wording of the listed hazard phrases refer to section 16.	

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing: Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

For safety reasons unsuitable extinguishing agents:

Water

Water with full jet

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Prevent seepage into sewage system, workpits and cellars.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

- DACH

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 17.03.2016 Revision: 17.03.2016

Trade name: DINITROL 530

(Contd. of page 3)

SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

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 container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Maximum storage temperature: < 35 °C Minimum storage temperature: > 0 °C

Storage temperature: 0 - 35 °C

Storage class: 3

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

78-93-3 butanone

	nit values that require monitoring at the workplace:
78-93-3 butanone	
AGW (DACH)	Long-term value: 600 mg/m³, 200 ppm 1(I);DFG, EU, H, Y
MAK (Switzerland)	Short-term value: 590 mg/m³, 200 ppm Long-term value: 590 mg/m³, 200 ppm H B SSc;
123-86-4 n-butyl ac	etate
	Long-term value: 300 mg/m³, 62 ppm 2(I); Y, AGS
MAK (Switzerland)	Short-term value: 960 mg/m³, 200 ppm Long-term value: 480 mg/m³, 100 ppm SSc;
872-50-4 N-methyl-	2-pyrrolidone
	Long-term value: 82 mg/m³, 20 ppm 2(I);EU, DFG, AGS, H, Y, 11, 19
,	Short-term value: 160 mg/m³, 40 ppm Long-term value: 80 mg/m³, 20 ppm H SSc;

(Contd. on page 5)

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 17.03.2016 Revision: 17.03.2016

Trade name: DINITROL 530

(Contd. of page 4) BGW (DACH) Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 2-Butanon BAT (Switzerland) 5 mg/lUntersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Biol. Parameter: 2-Butanon (MEK) 872-50-4 N-methyl-2-pyrrolidone 150 mg/l BGW (DACH) Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: 5-Hydroxy-N-methyl-2-pyrrolidon

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

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.

Respiratory protection: Filter A

Protection of hands:



Protective gloves (DIN EN 374)

Chemical resistant protective gloves with CE-labeling

To minimise the wetness in the glove due to perspiration changing of gloves during a shift is required. Softening of the callus when wearing air-impermeable gloves is possible.

Check the permeability prior to each anewed use of the glove.

Material of gloves

Butyl rubber

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Safety glasses (DIN EN 166)

Body protection:



Protective work clothing

DACI

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 17.03.2016 Revision: 17.03.2016

Trade name: DINITROL 530

(Contd. of page 5)

SECTION 9: Physical and ch	iemical properties
9.1 Information on basic physical a	and chemical properties
General Information	
Appearance:	
Form:	Liquid
Colour:	Black
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value:	Not determined.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	79 °C
Flash point:	-4 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	> 300 °C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapo mixtures are possible.
Explosion limits:	
Lower:	1,8 Vol %
Upper:	11,5 Vol %
Vapour pressure at 20 °C:	105 hPa
Density at 20 °C:	0,94 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
water:	Not miscible or difficult to mix.
Partition coefficient (n-octanol/wat	ter): Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	
Organic solvents:	70,5 %
Solids content:	28,4 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.

(Contd. on page 7)

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Revision: 17.03.2016 Printing date 17.03.2016

Trade name: DINITROL 530

(Contd. of page 6)

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

Inhalative LC50/4h 239 mg/l

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (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.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable. vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

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

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number

ADR, IMDG, IATA UN1993

(Contd. on page 8)

Safety data sheet acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 17.03.2016 Revision: 17.03.2016

Trade name: DINITROL 530

	(Contd. of pa		
14.2 UN proper shipping name			
ADR	FLAMMABLE LIQUID, N.O.S. (vapour pressure at 50 °C not more than 110 kPa) (ETHYL METHYL KETONE (METHYL ETHYL KETONE), BUTYL ACETATES)		
IMDG	FLAMMABLE LIQUID, N.O.S. (ETHYL METHYL KETONE (METHYL ETHYL KETONE), BUTYL ACETATES)		
IATA	Flammable liquid, n.o.s. (Ethyl methyl ketone, Butyl acetates)		
14.3 Transport hazard class(es)			
ADR			
3			
Class	3 (F1) Flammable liquids.		
Label	3		
IMDG, IATA			
Class	3 Flammable liquids.		
Label	3		
14.4 Packing group ADR, IMDG, IATA	II		
14.5 Environmental hazards: Marine pollutant:	No		
14.6 Special precautions for user	Warning: Flammable liquids.		
Danger code (Kemler):	33 F. F. G. F.		
EMS Number: Stowage Category	F-E, <u>S-E</u> B		
14.7 Transport in bulk according to Anno Marpol and the IBC Code	ex II of Not applicable.		
Transport/Additional information:			
ADR			
Limited quantities (LQ)	1L		
Excepted quantities (EQ)	Code: E2		
Than an out a atom a well	Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml		
Transport category Tunnel restriction code	D/E		
<i>IMDG</i>			
Limited quantities (LQ)	IL		
Excepted quantities $(\widetilde{E}Q)$	Code: E2		
	Maximum net quantity per inner packaging: 30 ml		
	Maximum net quantity per outer packaging: 500 ml		

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 17.03.2016 Revision: 17.03.2016

Trade name: DINITROL 530

(Contd. of page 8)

UN "Model Regulation": UN 1993 FLAMMABLE LIQUID, N.O.S. (VAPOUR

PRESSURE AT 50 °C NOT MORE THAN 110 KPA) (ETHYL METHYL KETONE (METHYL ETHYL KETONE),

BUTYL ACETATES), 3, II

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

Seveso category P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements $5.000\ t$

Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t

National regulations:

Technical instructions (air):

Class	Share in %
NK	50-100

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

872-50-4 N-methyl-2-pyrrolidone

EU-VOC: 70,52 %

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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.

Relevant phrases

H225	Highly	flammable li	auid and	vanour.

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H360D May damage the unborn child.

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

R36 Irritating to eyes.

R36/37/38 Irritating to eyes, respiratory system and skin.

R37 Irritating to respiratory system.

R43 May cause sensitisation by skin contact.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and dizziness.

Department issuing MSDS: Entwicklung

Contact: msds@dinol.com Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

(Contd. on page 10)

acc. to EU regulations 1272/2008 and 1907/2006 incl. all amendments

Printing date 17.03.2016 Revision: 17.03.2016

Trade name: DINITROL 530

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 2: Flammable liquids, Hazard Category 3
Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Repr. 1B: Reproductive toxicity, Hazard Category 1B

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

(Contd. of page 9)

DACH