

**Safety Data Sheet**

according to 29 CFR 1910.1200(g)

**DINITROL 530**

Revision date: 11/12/2025

Product code: 13000

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**1. Identification****Product identifier**

DINITROL 530

**Recommended use of the chemical and restrictions on use****Use of the substance/mixture**

Adhesion promoter

**Details of the supplier of the safety data sheet****Manufacturer**

Company name: DINOL GmbH  
Street: Pyrmonter Strasse 76  
Place: D-32676 Luegde  
Telephone: + 49 (0) 5281 982980  
E-mail: msds@dinol.com  
Contact person: Labor  
Internet: www.dinol.com  
Responsible Department: msds@dinol.com

Telefax: + 49 (0) 5281 9829860

**Supplier**

Company name: DINOL U.S. Inc.  
Street: 8500 Cotter Street, Lewis Center  
Place: USA-43035 Ohio  
Telephone: 740-548-1656  
E-mail: info@dinolus.com  
Internet: www.dinol.com

Telefax: 740-548-1657

**Emergency phone number:** 3E Company Emergency +1-866-404-4230**2. Hazard(s) identification****Classification of the chemical****29 CFR Part 1910.1200**

Flammable liquids: Flam. Liq. 2  
Carcinogenicity: Carc. 2  
Serious eye damage/eye irritation: Eye Irrit. 2A  
Respiratory or skin sensitization: Skin Sens. 1  
Specific target organ toxicity single exposure: STOT SE 3 (narcotic effects)

**Label elements****29 CFR Part 1910.1200****Signal word:** Danger**Pictograms:****Hazard statements**

Highly flammable liquid and vapor  
May cause an allergic skin reaction  
Causes serious eye irritation  
May cause drowsiness or dizziness  
Suspected of causing cancer

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#### Precautionary statements

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Keep container tightly closed.  
 Ground/bond container and receiving equipment.  
 Use explosion-proof electrical/ventilating/lighting equipment.  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 Wash water thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves/protective clothing and eye/face protection.  
 If on skin: Wash with plenty of water.  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 If inhaled: Remove person to fresh air and keep comfortable for breathing.  
 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
 Continue rinsing.  
 If eye irritation persists: Get medical advice/attention.  
 If exposed or concerned: Get medical advice/attention.  
 In case of fire: Use water to extinguish.  
 Store in a well-ventilated place. Keep cool.  
 Store locked up.

#### Hazards not otherwise classified

No information available.

### 3. Composition/information on ingredients

#### Mixtures

##### Relevant ingredients

CAS No	Components	Quantity
78-93-3	butanone; ethyl methyl ketone	25 - 50 %
123-86-4	n-butyl acetate	24 %
1333-86-4	Carbon Black	9.9 %
26426-91-5	Benzene, 2,4-diisocyanato-1-methyl-, polymer with 1,6-diisocyanatohexane	5 - < 10 %
28182-81-2	Hexamethylene diisocyanate, oligomers	1 - < 5 %
100-41-4	ethylbenzene	0.9 %

#### Further Information

Full text of H statements: see section 16.

### 4. First-aid measures

#### Description of first aid measures

##### General information

In all cases of doubt, or when symptoms persist, seek medical advice.  
 Never give anything by mouth to an unconscious person or a person with cramps.  
 If unconscious but breathing normally, place in recovery position and seek medical advice.

##### After inhalation

Remove casualty to fresh air and keep warm and at rest.

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**After contact with skin**

Change contaminated clothing.  
After contact with skin, wash immediately with plenty of water and soap.

**After contact with eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing. Seek medical advice immediately.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Do NOT induce vomiting.  
Call a physician immediately.  
Put victim at rest, cover with a blanket and keep warm.

**Most important symptoms and effects, both acute and delayed**

No information available.

**Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

**5. Fire-fighting measures****Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Sand, Extinguishing powder. Water spray jet

**Unsuitable extinguishing media**

No further relevant information available.

**Specific hazards arising from the chemical**

No further relevant information available.

**Special protective equipment and precautions for fire-fighters**

No special measures are necessary.

**Additional information**

Use water spray/stream to protect personnel and to cool endangered containers. Suppress gases/vapors/mists with water spray jet.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**6. Accidental release measures****Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation.  
Wear personal protection equipment.  
Avoid contact with skin, eyes and clothes.  
Avoid breathing dust/fume/gas/mist/vapors/spray.

**For emergency responders**

For further specification, refer to section 8 of the SDS.

**Environmental precautions**

Do not allow uncontrolled discharge of product into the environment.  
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**Methods and material for containment and cleaning up****For containment**

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

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**For cleaning up**

Provide adequate ventilation.  
Clear contaminated areas thoroughly.  
Do not rinse down with water.

**Other information**

No information available.

**Reference to other sections**

Safe handling: see section 7  
Personal protection equipment (PPE): see section 8  
Disposal: see section 13

**7. Handling and storage****Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used.  
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.  
Vapors may form explosive mixtures with air.

**Advice on general occupational hygiene**

The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately.  
Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep in a cool, well-ventilated place.

**Hints on joint storage**

No special measures are necessary.

**Further information on storage conditions**

Keep container tightly closed. Keep container tightly closed and dry.  
maximum storage temperature : < 40 °C  
minimum storage temperature : > 4 °C  
storage temperature: : 4 - 40 °C

**8. Exposure controls/personal protection****Control parameters**

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**Exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	Category	Origin
78-93-3	2-Butanone (Methyl ethyl ketone)	200	590	TWA (8 h)	REL
78-93-3	2-Butanone	200	590	TWA (8 h)	REL
		300	885	STEL (15 min)	REL
1333-86-4	Carbon black (in presence of polycyclic aromatic hydrocarbons (PAHs)) (as PAHs)	-	0.1	TWA (8 h)	REL
1333-86-4	Carbon black (inhalable fraction)		3	TWA (8 h)	ACGIH-2024
1333-86-4	Carbon black	-	3.5	TWA (8 h)	REL
100-41-4	Ethyl benzene	100	435	TWA (8 h)	REL
		100	435	TWA (8 h)	REL
		125	545	STEL (15 min)	REL
100-41-4	Ethyl benzene	20		TWA (8 h)	ACGIH-2024
78-93-3	Methyl ethyl ketone	75		TWA (8 h)	ACGIH-2024
		150		STEL (15 min)	ACGIH-2024
123-86-4	n-Butyl acetate	150	710	TWA (8 h)	REL
		200	950	STEL (15 min)	REL
123-86-4	n-Butyl acetate	50	238	TWA (8 h)	ACGIH-2024
		150	712	STEL (15 min)	ACGIH-2024
123-86-4	n-Butyl-acetate	150	710	TWA (8 h)	REL

**Biological Exposure Indices (BEI-ACGIH)**

CAS No	Substance	Determinant	Value	Test material	Sampling time
78-93-3	METHYL ETHYL KETONE	Methyl ethyl ketone	2 mg/L	urine	End of shift
100-41-4	ETHYLBENZENE	Sum of mandelic acid and phenylglyoxylic acid (creatinine)	0.15 g/g	urine	End of shift

**Exposure controls**

**Appropriate engineering controls**

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**Individual protection measures, such as personal protective equipment**
**Eye/face protection**

Eye glasses with side protection (EN 166)

**Hand protection**

Tested protective gloves must be worn (EN ISO 374):

FKM (fluoro rubber) penetration time (maximum wearing period): 480 min.

NBR (Nitrile rubber) penetration time (maximum wearing period): 480 min.

Thickness of the glove material : > 0,12 mm

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves

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mentioned above together with the supplier of these gloves.  
 Protective gloves have to be replaced at the first sign of deterioration.  
 Protect skin by using skin protective cream.

#### Skin protection

. Wear anti-static footwear and clothing

#### Respiratory protection

Work in well-ventilated zones or use proper respiratory protection.  
 gas filtering equipment (EN 141),. Filter material/medium: A

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

Physical state:	Liquid	
Color:	black	
Odor:	characteristic	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		79 - 80,5 °C
Flammability:	Highly flammable	not determined
Lower explosion limits:		1,8 vol. %
Upper explosion limits:		11,5 vol. %
Flash point:		-4 °C
Auto-ignition temperature:		> 300 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Viscosity / kinematic:		not determined
Water solubility:	The study does not need to be conducted because the substance is known to be insoluble in water.	
Solubility in other solvents	not determined	
Partition coefficient n-octanol/water:		not determined
Vapor pressure: (at 20 °C)		105 hPa
Vapor pressure: (at 50 °C)		55 hPa
Density (at 20 °C):		0,92 - 0,93 g/cm <sup>3</sup>
Relative vapour density:		not determined
Particle characteristics:		not applicable

### Other information

#### Information with regard to physical hazard classes

Explosive properties	
not explosive In use may form flammable/explosive vapour-air mixture.	
Sustained combustibility:	No data available
Self-ignition temperature	
Solid:	not applicable
Gas:	not applicable
Oxidizing properties	
not determined	

#### Other safety characteristics

Evaporation rate:	not determined
Solvent content:	70,5 %

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Solid content:	23,5 %
Softening point:	not determined
Viscosity / dynamic:	not determined

**Further Information**

No information available.

**10. Stability and reactivity**
**Reactivity**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability**

Stability:	Stable
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The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions**

Hazardous reactions:	Will not occur
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No known hazardous reactions.

**Conditions to avoid**

No further relevant information available.

**Incompatible materials**

No further relevant information available.

**Hazardous decomposition products**

No known hazardous decomposition products.

**11. Toxicological information**
**Route(s) of Entry**

No information available.

**Information on toxicological effects**
**Acute toxicity**

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

**ATEmix tested**

	Dose	Species	Source
LC50, inhalation (vapor) (4 h)	240 mg/l		

**ATEmix calculated**

ATE (oral) &gt; 5000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation dust/mist) &gt; 12,5 mg/l

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
78-93-3	butanone; ethyl methyl ketone				
	oral	LD50 mg/kg 2740	Rat		
	dermal	LD50 mg/kg 6480	Rabbit		
1333-86-4	Carbon Black				
	oral	LD50 mg/kg > 8000	Rat		
26426-91-5	Benzene, 2,4-diisocyanato-1-methyl-, polymer with 1,6-diisocyanatohexane				
	oral	LD50 mg/kg > 5000	Rat		
28182-81-2	Hexamethylene diisocyanate, oligomers				
	oral	LD50 mg/kg > 5000	Rat		
	inhalation (4 h) vapour	LC50 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
100-41-4	ethylbenzene				
	oral	LD50 mg/kg 3500	Rat	GESTIS	
	dermal	LD50 mg/kg 15400	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50 17,2 mg/l	Rat		
	inhalation dust/mist	ATE 1,5 mg/l			

**Irritation and corrosivity**

Serious eye damage/eye irritation: Causes serious eye irritation

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

**Sensitizing effects**

May cause an allergic skin reaction (Benzene, 2,4-diisocyanato-1-methyl-, polymer with 1,6-diisocyanatohexane; Hexamethylene diisocyanate, oligomers)

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing cancer (Carbon Black; ethylbenzene)

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

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

**Specific target organ toxicity (STOT) - single exposure**

May cause drowsiness or dizziness (butanone; ethyl methyl ketone; n-butyl acetate)

**Specific target organ toxicity (STOT) - repeated exposure**

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

Carcinogenicity (IARC): Carbon black (CAS 1333-86-4) is listed in group 2B. Ethylbenzene (CAS 100-41-4) is listed in group 2B.

**Aspiration hazard**

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

**Specific effects in experiment on an animal**

No information available.

**Additional information on tests**

No information available.

**Practical experience**

No information available.

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**Information on other hazards**
**Endocrine disrupting properties**

Endocrine disrupting potential No information available.

**Further information**

There are no data available on the preparation/mixture itself.

**12. Ecological information**
**Persistence and degradability**

No further relevant information available.

**Bioaccumulative potential**

No further relevant information available.

**Mobility in soil**

No further relevant information available.

**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Other adverse effects**

No further relevant information available.

**Further information**

There are no data available on the mixture itself.

**13. Disposal considerations**
**Waste treatment methods**
**Disposal recommendations**

Dispose of waste according to applicable legislation. Do not mix with other wastes.

**Contaminated packaging**

Remove according to the regulations.

**14. Transport information**
**U.S. DOT 49 CFR 172.101**

<b><u>UN number or ID number:</u></b>	UN 1866
<b><u>Proper shipping name:</u></b>	RESIN SOLUTION
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II
Hazard label:	3


**Marine transport (IMDG)**

<b><u>UN number or ID number:</u></b>	UN 1866
<b><u>UN proper shipping name:</u></b>	RESIN SOLUTION
<b><u>Transport hazard class(es):</u></b>	3
<b><u>Packing group:</u></b>	II
Hazard label:	3



Marine pollutant:	no
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Special Provisions: -  
 Limited quantity: 5 L  
 Excepted quantity: E2  
 EmS: F-E, S-E

**Air transport (ICAO-TI/IATA-DGR)**

**UN number or ID number:** UN 1866  
**UN proper shipping name:** RESIN SOLUTION  
**Transport hazard class(es):** 3  
**Packing group:** II  
 Hazard label: 3



Special Provisions: A3  
 Limited quantity Passenger: 1 L  
 Passenger LQ: Y341  
 Excepted quantity: E2  
 IATA-packing instructions - Passenger: 353  
 IATA-max. quantity - Passenger: 5 L  
 IATA-packing instructions - Cargo: 364  
 IATA-max. quantity - Cargo: 60 L

**Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**Special precautions for user**

No information available.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

**15. Regulatory information**
**U.S. Regulations**
**National Inventory TSCA**

Substance/product listed in the following inventories: TSCA

**National regulatory information**
**SARA Section 304 CERCLA:**

Methyl ethyl ketone (78-93-3): Reportable quantity = 5,000 (2270) lbs. (kg)

Butyl acetate (123-86-4): Reportable quantity = 5,000 (2270) lbs. (kg)

Ethylbenzene (100-41-4): Reportable quantity = 1,000 (454) lbs. (kg)

**SARA Section 311/312 Hazards:**

Methyl ethyl ketone (78-93-3): Fire hazard, Immediate (acute) health hazard

Butyl acetate (123-86-4): Fire hazard, Immediate (acute) health hazard

Carbon Black (1333-86-4): Delayed (chronic) health hazard

Benzene, 2,4-diisocyanato-1-methyl-, polymer with 1,6-diisocyanatohexane (26426-91-5): Immediate (acute) health hazard

Hexamethylene diisocyanate, oligomers (28182-81-2): Immediate (acute) health hazard

Ethylbenzene (100-41-4): Fire hazard, Delayed (chronic) health hazard, Immediate (acute) health hazard

**SARA Section 313 Toxic release inventory:**

Ethylbenzene (100-41-4): De minimis limit = 0.1 %, Reportable threshold = Standard

**Clean Air Act Section 112(b):**

Methyl ethyl ketone (78-93-3), Ethylbenzene (100-41-4)

**State Regulations**

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#### Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Carbon black (airborne, unbound particles of respirable size) (cancer); Ethylbenzene (cancer), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

## 16. Other information

#### Hazardous Materials Identification System (HMIS)

Health:	2
Flammability:	3
Physical Hazard:	0

#### NFPA Hazard Ratings

Health:	2
Flammability:	3
Reactivity:	0
Unique Hazard:	



#### Changes

Revision date:	11/12/2025
Revision No:	1,5

This data sheet contains changes from the previous version in section(s): 2,5,8,9,16.

#### 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)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized 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  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%

#### Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

This safety data sheet contains only safety-related information and does not replace product information or product specifications.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*