

Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 6050 PLUS

Revision date: 11/20/2024

Product code: 5330

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1. Identification

Product identifier

DINITROL 6050 PLUS

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Bodyfiller/stopper

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
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. 3
Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2A
Reproductive toxicity: Repr. 2
Specific target organ toxicity repeated or prolonged exposure: STOT RE 1

Label elements

29 CFR Part 1910.1200

Signal word: Danger

Pictograms:



Hazard statements

Flammable liquid and vapor
Causes skin irritation
Causes serious eye irritation
Suspected of damaging fertility or the unborn child
Causes damage to organs through prolonged or repeated exposure

Precautionary statements

Obtain special instructions before use.

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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.
 Do not breathe dust/fume/gas/mist/vapors/spray.
 Do not eat, drink or smoke when using this product.
 Wear protective gloves and eye protection/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.
 Take off contaminated clothing and wash it before reuse.
 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

Endocrine disrupting properties: styrene.
 No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Components	Quantity
100-42-5	styrene	13.88 %
13463-67-7	titanium dioxide	4.254 %

Further Information

The homogeneous mixing of this product is controlled by continuous physical tests. Formerly dusty raw materials are completely integrated into the liquid/pasty mass. Possible AGW-values for solid substances are therefore not given, as there is no longer any risk of inhalation of these substances (when handling this mixture).

4. First-aid measures

Description of first aid measures

General information

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

After inhalation

Provide fresh air. In case of irregular breathing or respiratory arrest provide artificial respiration.
 If unconscious but breathing normally, place in recovery position and seek medical advice.
 In all cases of doubt, or when symptoms persist, seek medical advice.

After contact with skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/or shower. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

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Continue rinsing. In case of eye irritation consult an ophthalmologist.

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

Nausea, Dizziness, Headache.

Indication of any immediate medical attention and special treatment needed

No information available.

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

alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water fog.

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

Hazardous decomposition products: Danger of serious damage to health by prolonged exposure.

Do not inhale explosion and combustion gases. Use appropriate respiratory protection.

Special protective equipment and precautions for fire-fighters

Use water spray/stream to protect personnel and to cool endangered containers.

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.

For cleaning up

Provide adequate ventilation.

Clear contaminated areas thoroughly.

Do not rinse down with water.

Other information

No information available.

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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.

Vapours may form explosive mixtures with air.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

When using do not eat or drink.

Wash hands before breaks and after work.

Avoid contact with skin and eyes.

Remove contaminated, saturated clothing immediately.

Do not breathe gas/vapour/aerosol.

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

Keep container tightly closed. Keep in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Material, rich in oxygen, oxidizing.

Further information on storage conditions

Keep container tightly closed and in a well-ventilated place. Keep container dry.

Protect from direct sunlight.

storage temperature: 15 - 25 °C

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

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Exposure limits

CAS No	Substance	ppm	mg/m ³	f/cc	Category	Origin
7727-43-7	Barium sulfate (total)	-	10		TWA (8 h)	REL
7727-43-7	Barium sulfate (inhalable fraction)		5		TWA (8 h)	ACGIH-2024
7727-43-7	Barium sulfate Respirable fraction	-	5		TWA (8 h)	REL
100-42-5	Styrene	100	-		TWA (8 h)	REL
		C 200	-		Ceiling	REL
		600	-		5 min	REL
100-42-5	Styrene	50	215		TWA (8 h)	REL
		100	425		STEL (15 min)	REL
100-42-5	Styrene	10			TWA (8 h)	ACGIH-2024
		20			STEL (15 min)	ACGIH-2024
14807-96-6	Talc (containing no asbestos and less than 1% quartz) (resp)	-	2		TWA (8 h)	REL
14807-96-6	Talc (containing no asbestos) respirable dust	706 mp/m ³	-		TWA (8 h)	REL
14807-96-6	Talc containing no asbestos fibers (respirable fraction)		2		TWA (8 h)	ACGIH-2024
13463-67-7	Titanium dioxide Total dust	-	15		TWA (8 h)	REL
13463-67-7	Titanium dioxide: Finescale particles (Respirable particulate matter)		0.2		TWA (8 h)	ACGIH-2024
13463-67-7	Titanium dioxide				as low as possible	REL

Biological Exposure Indices (BEI-ACGIH)

CAS No	Substance	Determinant	Value	Test material	Sampling time
100-42-5	Styrene	Mandelic acid plus phenylglyoxylic acid (creatinine)	150 mg/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), Breakthrough time:: 480 min.

NBR (Nitrile rubber), Breakthrough time:: 30 min.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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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:	Paste
Color:	yellow - brown
Odor:	characteristic
Odour threshold:	not determined

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	145 °C

Flammability

Solid/liquid:	not applicable
Lower explosion limits:	1,2 vol. %

Upper explosion limits:	8,9 vol. %
Flash point:	31 °C

Auto-ignition temperature:	480 °C
Decomposition temperature:	not determined

pH-Value:	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:	6,7 hPa
(at 20 °C)	

Density (at 20 °C):	1,80 g/cm³
Relative vapour density:	not determined

	ISO 2811
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Other information

Information with regard to physical hazard classes

Explosive properties

not determined

Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

Oxidizing properties

not determined

Other safety characteristics

Evaporation rate:	not determined
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Solvent separation test:	<3 % (ADR/RID)
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Solvent content:	13,40 %
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Solid content:	86,60 %
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Viscosity / dynamic:
(at 20 °C)

110000 - 130000 mPa·s

Further Information

No information available.

10. Stability and reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

Stability: Stable

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Hazardous reactions: Will not occur

No known hazardous reactions.

Conditions to avoid

In case of warming: Danger of polymerisation

Incompatible materials

No information available.

Hazardous decomposition products

Carbon monoxide

11. Toxicological information

Information on toxicological effects

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
100-42-5	styrene				
	oral	LD50 > 5000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		
	inhalation (4 h) vapour	LC50 11,8 mg/l	Rat		
	inhalation dust/mist	ATE 1,5 mg/l			
13463-67-7	titanium dioxide				
	oral	LD50 > 20000 mg/kg	Rat		
	dermal	LD50 > 10000 mg/kg	Rabbit		

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation

Serious eye damage/eye irritation: Causes serious eye irritation

Sensitizing effects

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

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Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging fertility or the unborn child

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

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

Specific target organ toxicity (STOT) - single exposure

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

Specific target organ toxicity (STOT) - repeated exposure

Causes damage to organs through prolonged or repeated exposure (styrene)

Carcinogenicity (OSHA): No ingredient of this mixture is listed.

Carcinogenicity (IARC): Talc not containing asbestos or asbestiform fibres (CAS 14807-96-6) is listed in group 3. Styrene (CAS 100-42-5) is listed in group 2A. Titanium dioxide (CAS 13463-67-7) is listed in group 2B.

Carcinogenicity (NTP): Styrene (CAS 100-42-5) is listed in group RAHC.

Aspiration hazard

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

Information on other hazards

Endocrine disrupting properties

Endocrine disrupting properties: styrene.

Endocrine disrupting potential No information available.

Further information

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

12. Ecological information

Persistence and degradability

There are no data available on the mixture itself.

Bioaccumulative potential

There are no data available on the mixture itself.

Mobility in soil

There are no data available on the mixture itself.

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 information available.

Further information

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

Do not allow to enter into surface water or drains.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

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

List of proposed waste codes/waste designations in accordance with EWC:

Contaminated packaging

Remove according to the regulations.

14. Transport information

U.S. DOT 49 CFR 172.101

UN number or ID number:

UN 1866

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Proper shipping name: RESIN SOLUTION
Transport hazard class(es): 3
Packing group: III
Hazard label: 3



Marine transport (IMDG)

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



Marine pollutant: no
Special Provisions: 223, 955
Limited quantity: 5 L
Excepted quantity: E1
EmS: F-E, S-E

Other applicable information (marine transport)

E1

Transport in accordance with paragraph 2.3.2.5 of the IMDG Code.

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: III
Hazard label: 3



Special Provisions: A3
Limited quantity Passenger: 10 L
Passenger LQ: Y344
Excepted quantity: E1
IATA-packing instructions - Passenger: 355
IATA-max. quantity - Passenger: 60 L
IATA-packing instructions - Cargo: 366
IATA-max. quantity - Cargo: 220 L

Other applicable information (air transport)

E1

Passenger-LQ: Y344

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

Warning: Flammable liquids

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

not applicable

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15. Regulatory information

U.S. Regulations

National Inventory TSCA

Substance/product listed in the following inventories: TSCA

National regulatory information

SARA Section 304 CERCLA:

Styrene (100-42-5): Reportable quantity = 1,000 (454) lbs. (kg)

SARA Section 311/312 Hazards:

Styrene (100-42-5): Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

titanium dioxide (13463-67-7): Delayed (chronic) health hazard

SARA Section 313 Toxic release inventory:

Styrene (100-42-5): De minimis limit = 0.1 %, Reportable threshold = Standard

Clean Air Act Section 112(b):

Styrene (100-42-5)

State Regulations

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

WARNING: This product can expose you to chemicals including Styrene (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.

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

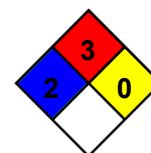
16. Other information

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: 11/20/2024

Revision No: 2,0

This data sheet contains changes from the previous version in section(s): 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

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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.

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