Safety Data Sheet

according to 29 CFR 1910.1200(g)

DINITROL 6050 PLUS

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	Telefax: + 49 (0) 5281 9829860
e-mail:	msds@dinol.com	
Contact person:	Labor	
Responsible Department:	msds@dinol.com	

Supplier

Company name:	DINOL U.S. Inc.	
Street:	8520 Cotter Street, Lewis Center	
Place:	USA-43035 Ohio	
Telephone:	740-548-1656	Telefax: 740-548-1657
e-mail:	info@dinolus.com	
Internet:	www.dinol.com	

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
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 damage to organs through prolonged or repeated exposure

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Take precautionary measures against static discharge.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear protective gloves and eye/face protection.
If skin irritation occurs: Get medical advice/attention.

Get medical advice/attention if you feel unwell.
Dispose of contents/container to This material and its container must be disposed of as hazardous waste ..

Hazards not otherwise classified

No information available.

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Components	Quantity
100-42-5	styrene	13.28 %
13463-67-7	Titanium dioxide	5.095 %

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).
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/none

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 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. 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, Drowsiness, 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

Supress gases/vapours/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 measures

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

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

Other information

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

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.

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 against direct sunlight.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m³	f/cc	Category	Origin
7727-43-7	Barium sulfate (resp)	-	5		TWA (8 h)	REL
7727-43-7	Barium sulfate Respirable fraction	-	5		TWA (8 h)	PEL
100-42-5	Styrene	100	-		TWA (8 h)	PEL
		C 200	-		Ceiling	PEL
100-42-5	Styrene	600	-		Peak	PEL
		50	215		TWA (8 h)	REL
		100	425		STEL (15 min)	REL
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/m³	-		TWA (8 h)	PEL
13463-67-7	Titanium dioxide Total dust	-	15		TWA (8 h)	PEL

Exposure controls

Protective and hygiene measures

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.

Eye/face protection

Eye glasses with side protection (DIN EN 166)

Hand protection

Tested protective gloves must be worn (EN ISO 374):
FKM (fluoro rubber), Breakthrough time (maximum wearing time): 480 min.
NBR (Nitrile rubber), Breakthrough time (maximum wearing 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.
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

	Test method
pH-Value:	not determined

Changes in the physical state

Melting point/freezing point:	not determined	
Boiling point or initial boiling point and boiling range:	145 °C	
Flash point:	31 °C	DIN 51755

Flammability

Solid/liquid:	not applicable	
Gas:	not applicable	

Explosive properties

not determined

Lower explosion limits:	1,2 vol. %	
Upper explosion limits:	8,9 vol. %	
Auto-ignition temperature:	480 °C	

Self-ignition temperature

Solid:	not applicable	
Gas:	not applicable	
Decomposition temperature:	not determined	

Oxidizing properties

not determined

Vapor pressure: (at 20 °C)	6,7 hPa	
Density (at 20 °C):	1,80 g/cm³	ISO 2811
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	
Viscosity / dynamic: (at 20 °C)	110000 mPa·s	
Relative vapour density:	not determined	
Evaporation rate:	not determined	
Solvent separation test:	<3 % (ADR/RID)	
Solvent content:	14,0 %	

Other information

Solid content:	86,0 %	

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: May 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.

CAS No	Components					
	Exposure route	Dose		Species	Source	Method
100-42-5	styrene					
	oral	LD50 mg/kg	2650	Rat	GESTIS	
	inhalation (4 h) vapour	LC50	12 mg/l	Rat		
	inhalation aerosol	ATE	1,5 mg/l			
13463-67-7	Titanium dioxide					
	oral	LD50 mg/kg	> 5000	Rat		
	dermal	LD50 mg/kg	> 5000	Rabbit		
	inhalation (4 h) aerosol	LC50 mg/l	> 6,8	Rat		

Irritation and corrosivity

Causes skin irritation

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Irritating to eyes and skin.

Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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)

Danger of serious damage to health by prolonged exposure.

Carcinogenicity (OSHA): None of the ingredients is listed.

Carcinogenicity (IARC): listed in group 2B: Styrene (CAS 100-42-5), Titanium dioxide (CAS 13463-67-7).
listed in group 3: Talc, not containing asbestiform fibres (CAS 14807-96-6), Silica, amorphous (CAS 7631-86-9), Ferric oxide (CAS 1309-37-1).

Carcinogenicity (NTP): None of the ingredients is listed.

Aspiration hazard

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

Further information

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

12. Ecological information

Ecotoxicity

There are no data available on the mixture itself.

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.

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

US DOT 49 CFR 172.101

UN/ID number:	UN 1866
Proper shipping name:	Resin solution
Transport hazard class(es):	3
Packing group:	III
Hazard label:	3

Marine transport (IMDG)

UN 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
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:	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
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

15. Regulatory information

U.S. Regulations

National Inventory TSCA

All ingredients are listed.

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)

SARA

Section 313 Toxic Release Chemicals: Styrene (CAS 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.

16. Other information

Hazardous Materials Information Label (HMIS)

Health:	2
Flammability:	3
Physical Hazard:	0

NFPA Hazard Ratings

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

Changes

Revision date:	11/23/2020
Revision No:	1,5

This data sheet contains changes from the previous version in section(s): 3,12.

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.

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