

Printing date 21.09.2010 Revision: 21.09.2010

1 Identification of the substance/preparation and of the company/undertaking

· Product details

· Trade name: Dinitrol 452 Sprühkleber Spray

· Application of the substance / the preparation Adhesives

· Manufacturer/Supplier:

Dinol GmbH

Pyrmonter Strasse 76 D-32676 Lügde

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- · Further information obtainable from: Research & Development
- Information in case of emergency: Giftnotruf Berlin +49(0)30 30686 790 Beratung in Deutsch und Englisch.

2 Hazards identification

· Hazard description:







Xi Irritant

F+ Extremely flammable

N Dangerous for the environment

· 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.

Warning! Pressurized container.

Has a narcotizing effect.

R 12 Extremely flammable.

R 38 Irritating to skin.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 67 Vapours may cause drowsiness and dizziness.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.

· Classification system:

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

· Additional information:

The petroleum naphtha / petroleum distillate / lubricating oil meet the requirements for not being classified as carcinogenic (<0,1% benzene alt<3% (w/w) DMSO extract (IP 346)).

3 Composition/information on ingredients

- · Chemical characterization
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 64742-49-0 EINECS: 265-151-9	Naphtha (petroleum), hydrotreated light X Xn, X Xi, R N; R 11-38-51/53-65-67	25-<50%
CAS: 115-10-6 EINECS: 204-065-8	Dimethyl ether F+; R 12	25-<50%
CAS: 110-54-3 EINECS: 203-777-6	n-Hexane X Xn, X Xi, B F, ½ N; R 11-38-48/20-62-51/53-65-67	1-<5%

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· Additional information: For the wording of the listed risk phrases refer to section 16.

4 First-aid measures

- · After inhalation: 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.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · The following symptoms may occur:

Headache

Dizziness

· Treatment If swallowed or in case of vomiting, danger of entering the lungs.

5 Fire-fighting measures

· Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards caused by the substance, its products of combustion or resulting gases:

In case of fire, the following can be released:

Carbon monoxide (CO)

- · Protective equipment: No special measures required.
- · Additional information Cool endangered receptacles with water spray.

6 Accidental release measures

- · Person-related safety precautions: Wear protective equipment. Keep unprotected persons away.
- · Measures for environmental protection:

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

Inform respective authorities in case of seepage into water course or sewage system.

· Measures for cleaning/collecting:

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· Additional information: See Section 13 for disposal information.

7 Handling and storage

- · Handling:
- · Information for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· Information about fire - and explosion protection:

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

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· Storage:

· Requirements to be met by storerooms and receptacles:

Store in a cool location.

Observe official regulations on storing packagings with pressurized containers.

- · Information about storage in one common storage facility: Store away from foodstuffs.
- · Further information about storage conditions:

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

· Maximum storage temperature: < 50 °C

8 Exposure controls/personal protection

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

· Ingredients with limit values that require monitoring at the workplace:

115-10-6 Dimethyl ether (25-<50%)

WEL Short-term value: 958 mg/m³, 500 ppm Long-term value: 766 mg/m³, 400 ppm

110-54-3 n-Hexane (1-<5%)

WEL Long-term value: 72 mg/m³, 20 ppm

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

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- · Material of gloves Nitrile rubber
- Penetration time of glove material Value for the permeation: Level ≥ 480 min
- · Not suitable are gloves made of the following materials: Strong material gloves

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· Eye protection:

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Tightly sealed goggles

9 Physical	and	che	mical	pro	perties

· General Information	
Form:	Aerosol
Colour:	Light beige
Odour:	Petrol-like
· Change in condition	
Melting point/Melting range:	
Boiling point/Boiling range:	Not applicable, as aerosol.
· Flash point:	-42°C
· Ignition temperature:	235°C
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	3.0 Vol %
Upper:	18.6 Vol %
· Vapour pressure At 20°C:	4400 hPa
· Density At 20°C:	0.705 g/cm³
· Solubility in / Miscibility with water:	Not miscible or difficult to mix.
· Solvent content:	J.
Organic solvents:	86.8 %
Solids content:	13.2 % (DIN 53216)
· Additional information:	
VOC (EU):	86.80 %
VOC (EU):	612.0 g/l

10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Materials to be avoided:
- · Dangerous reactions No dangerous reactions known.
- · Dangerous decomposition products: No dangerous decomposition products known.

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11 Toxicological information

· Acute toxicity:

· LD/LC50 values relevant for classification:

64742-49-0 Naphtha (petroleum), hydrotreated light

 Oral
 LD50
 >5000 mg/kg (RAT)

 Dermal
 LD50
 >2600 mg/kg (RABBIT)

 Inhalative
 LC50/4 h
 >193 mg/l (RAT)

- · Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

· Inhalation:

May cause headache, dizziness, tiredness and indisposition. At high concentrations reaction time and memory may deteriorate and unconsciousness may occur. Long or often repeated inhalation of high concentrations may cause permanent damage to the nervous system.

· Ingestion: May cause similar symptoms as for inhalation.

12 Ecological information

- · Information about elimination (persistence and degradability):
- · Other information: The product is biodegradable.
- · Ecotoxical effects:
- · Acquatic toxicity:

64742-49-0 Naphtha (petroleum), hydrotreated light

EC50/48 h 10 mg/l (PHAEOPHYTA)

- · Remark: Toxic for fish
- · 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. Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

13 Disposal considerations

- · Product:
- · Recommendation

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

•	European	waste	catai	logue
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15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND
	PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 04	metallic packaging
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST

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16 05 00 gases in pressure containers and discarded chemicals
16 05 04* gases in pressure containers (including halons) containing dangerous substances

08 00 00 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS

08 04 00 wastes from MFSU of adhesives and sealants (including waterproofing products)

08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances

- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· Land transport ADR/RID (cross-border)





· ADR/RID class: 2 5F Gases.

· Danger code (Kemler): · UN-Number: 1950
· Packaging group: · Hazard label 2.1

Special marking: Symbol (fish and tree)
 Description of goods: 1950 AEROSOLS

· Limited quantities (LQ) LQ2 · Transport category 2 · Tunnel restriction code D

· Maritime transport IMDG:





· IMDG Class: 2.1 · UN Number: 1950 · Label 2.1 · Packaging group: -

• EMS Number: F-D,S-U
• Marine pollutant: Yes

Symbol (fish and tree)

· Proper shipping name: AEROSOLS (Naphtha (petroleum), hydrotreated light, HEXANES)

· Air transport ICAO-TI and IATA-DGR:



· ICAO/IATA Class: 2.1 · UN/ID Number: 1950 · Label 2.1

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· Packaging group:

· Proper shipping name: AEROSOLS, flammable

· Environmental hazards:

Product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated light

15 Regulatory information

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:







Xi Irritant

F+ Extremely flammable

N Dangerous for the environment

· Risk phrases:

- 12 Extremely flammable.
- 38 Irritating to skin.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 67 Vapours may cause drowsiness and dizziness.

· Safety phrases:

- 2 Keep out of the reach of children.
- 16 Keep away from sources of ignition No smoking.
- 23 Do not breathe fumes/aerosol.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 51 Use only in well-ventilated areas.

· Special labelling of certain preparations:

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.

- · Classification in accordance with Directive 75/324/EEC: Extremely flammable
- · National regulations:
- · Technical instructions (air):

Class	Share in %
III	25-50
NK	25-50

· Waterhazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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 R-phrases

11 Highly flammable.

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- 12 Extremely flammable.
- 38 Irritating to skin.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 62 Possible risk of impaired fertility.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.
- · Department issuing MSDS: Research & Development
- · Contact: Dr. Thomas Sürig
- * * Data compared to the previous version altered.

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