

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 445 Spray

Revision date: 12.11.2019

Product code: 5069

Page 2 of 14

| | |
|------|--|
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements

| | |
|-----------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P260 | Do not breathe vapour/aerosol. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P501 | This material and its container must be disposed of as hazardous waste. |

Special labelling of certain mixtures

| | |
|--------|---|
| EUH208 | Contains Fatty acids, C18-unsatd. , trimers, compds. with oleylamine, Fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction. |
|--------|---|

Additional advice on labelling

The classification of the aerosol was carried out according to EC 1272/2008, Annex 1, point 1.1.3.7.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

according to Regulation (EC) No 1907/2006

DINITROL 445 Spray

Revision date: 12.11.2019

Product code: 5069

Page 3 of 14

Hazardous components

| CAS No | Chemical name | | | Quantity |
|-------------|---|--------------|------------------|-------------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 141-78-6 | ethyl acetate | | | 25 - < 30 % |
| | 205-500-4 | 607-022-00-5 | 01-2119475103-46 | |
| | Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066 | | | |
| 74-98-6 | propane | | | 10 - < 15 % |
| | 200-827-9 | 601-003-00-5 | 01-2119486944-21 | |
| | Flam. Gas 1, Liquefied gas; H220 H280 | | | |
| 106-97-8 | butane | | | 5 - < 10 % |
| | 203-448-7 | 601-004-00-0 | 01-2119474691-32 | |
| | Flam. Gas 1, Liquefied gas; H220 H280 | | | |
| 75-28-5 | isobutane | | | 5 - < 10 % |
| | 200-857-2 | 601-004-00-0 | 01-2119485395-27 | |
| | Flam. Gas 1, Liquefied gas; H220 H280 | | | |
| 1330-20-7 | xylene | | | 5 - < 10 % |
| | 215-535-7 | 601-022-00-9 | 01-2119488216-32 | |
| | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H226 H332 H312 H315 H319 H335 H373 H304 H412 | | | |
| 64742-82-1 | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | | 5 - < 10 % |
| | 919-446-0 | 649-330-00-2 | 01-2119458049-33 | |
| | Flam. Liq. 3, STOT SE 3, STOT RE 1, Asp. Tox. 1, Aquatic Chronic 2; H226 H336 H372 H304 H411 EUH066 | | | |
| 147900-93-4 | Fatty acids, C18-unsatd., trimers, compds. with oleylamine | | | 0.1 - < 1 % |
| | 604-612-4 | | | |
| | Skin Sens. 1B, STOT RE 1, Aquatic Chronic 2; H317 H372 H411 | | | |
| 85711-55-3 | Fatty acids, tall-oil, compds. with oleylamine | | | 0.1 - < 1 % |
| | 288-315-1 | | 01-2119974148-28 | |
| | Skin Sens. 1; H317 | | | |

Full text of H and EUH statements: see section 16.

Further Information

Note: Each entry in the column EC number that begins with the number "9" is - until the publication the official registration number - one specified by ECHA provisional number for the substance. The above-mentioned substance(s) in this product is (are) identified by CAS number and indeed in Countries that are not subject to the REACH Regulation, or in a regulation which is not in accordance with new naming convention for hydrocarbons have been updated.

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation

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

If unconscious place in recovery position and seek medical advice.

according to Regulation (EC) No 1907/2006

DINITROL 445 Spray

Revision date: 12.11.2019

Product code: 5069

Page 4 of 14

After contact with skin

Change contaminated clothing.
Wash with plenty of water/Soap.
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).
Call a physician immediately.
Put victim at rest, cover with a blanket and keep warm.
Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Nausea, Drowsiness, Headache.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

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

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products: Danger of serious damage to health by prolonged exposure.
Do not inhale explosion and combustion gases. Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.
Do not allow entering drains or surface water.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Provide adequate ventilation.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wear personal protection equipment.
Avoid contact with skin, eyes and clothes.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Prevent spread over a wide area (e.g. by containment or oil barriers).
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.

6.4. Reference to other sections

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

according to Regulation (EC) No 1907/2006

DINITROL 445 Spray

Revision date: 12.11.2019

Product code: 5069

Page 5 of 14

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Advice on safe handling

Handle and open container with care.

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

Take precautionary measures against static discharges.

Do not spray on naked flames or any incandescent material.

Keep away from sources of ignition - No smoking.

Heating causes rise in pressure with risk of bursting.

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

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

Do not keep the container sealed. Keep container dry.

Keep away from heat. Protect against direct sunlight.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|------------|-----------------------|-----|-------------------|-----------|---------------|--------|
| 106-97-8 | Butane | 600 | 1450 | | TWA (8 h) | WEL |
| | | 750 | 1810 | | STEL (15 min) | WEL |
| 141-78-6 | Ethyl acetate | 200 | - | | TWA (8 h) | WEL |
| | | 400 | - | | STEL (15 min) | WEL |
| 14807-96-6 | Talc respirable dust | - | 1 | | TWA (8 h) | WEL |
| 1330-20-7 | Xylene: mixed isomers | 50 | 220 | | TWA (8 h) | WEL |
| | | 100 | 441 | | STEL (15 min) | WEL |

Biological Monitoring Guidance Values (EH40)

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|-----------|-------------------------------------|-----------------------------------|--------------|---------------|---------------|
| 1330-20-7 | Xylene, o-, m-, p- or mixed isomers | methyl hippuric acid (creatinine) | 650 mmol/mol | urine | Post shift |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 445 Spray

Revision date: 12.11.2019

Product code: 5069

Page 6 of 14

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|---|----------------|----------|------------------------|
| 141-78-6 | ethyl acetate | | | |
| Worker DNEL, long-term | | inhalation | systemic | 734 mg/m ³ |
| Worker DNEL, acute | | inhalation | systemic | 1468 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 734 mg/m ³ |
| Worker DNEL, acute | | inhalation | local | 1468 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 63 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 367 mg/m ³ |
| Consumer DNEL, acute | | inhalation | systemic | 734 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 37 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 4,5 mg/kg bw/day |
| 1330-20-7 | xylene | | | |
| Worker DNEL, long-term | | dermal | systemic | 108 mg/kg bw/day |
| Worker DNEL, acute | | inhalation | systemic | 289 mg/m ³ |
| Worker DNEL, acute | | inhalation | local | 174 mg/m ³ |
| Worker DNEL, long-term | | inhalation | systemic | 77 mg/m ³ |
| Consumer DNEL, long-term | | oral | systemic | 1,6 mg/kg bw/day |
| Consumer DNEL, long-term | | dermal | systemic | 108 mg/kg bw/day |
| Consumer DNEL, acute | | inhalation | systemic | 174 mg/m ³ |
| Consumer DNEL, acute | | inhalation | local | 174 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | systemic | 14,8 mg/m ³ |
| 64742-82-1 | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | | |
| Worker DNEL, long-term | | inhalation | systemic | 330 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 44 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 71 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 26 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 26 mg/kg bw/day |

according to Regulation (EC) No 1907/2006

DINITROL 445 Spray

Revision date: 12.11.2019

Product code: 5069

Page 7 of 14

PNEC values

| CAS No | Substance | Value |
|--|---------------|-------------|
| Environmental compartment | | |
| 141-78-6 | ethyl acetate | |
| Freshwater | | 0,24 mg/l |
| Marine water | | 0,024 mg/l |
| Freshwater sediment | | 1,15 mg/kg |
| Marine sediment | | 0,115 mg/kg |
| Secondary poisoning | | 0,20 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 650 mg/l |
| Soil | | 0,148 mg/kg |
| 1330-20-7 | xylene | |
| Freshwater | | 0,327 mg/l |
| Marine water | | 0,327 mg/l |
| Freshwater sediment | | 12,46 mg/kg |
| Marine sediment | | 12,46 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 6,58 mg/l |
| Soil | | 2,31 mg/kg |

8.2. 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.

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):

PVA (Polyvinyl alcohol), Breakthrough time (maximum wearing time): 480 min

NBR (Nitrile rubber), Breakthrough time (maximum wearing time): 30 min

Butyl caoutchouc (butyl 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.

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/P2

according to Regulation (EC) No 1907/2006

DINITROL 445 Spray

Revision date: 12.11.2019

Product code: 5069

Page 8 of 14

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Aerosol
 Colour: black
 Odour: characteristic
 pH-Value: not determined

Changes in the physical state

Melting point: not determined
 Initial boiling point and boiling range: not applicable
 Flash point: < -10 °C

Flammability

Solid: not applicable
 Gas: not applicable

Explosive properties

not determined

Lower explosion limits: 1,5 vol. %
 Upper explosion limits: 10,9 vol. %
 Ignition temperature: 210 °C

Auto-ignition temperature

Solid: not applicable
 Gas: not applicable

Decomposition temperature: not determined

Oxidizing properties

not determined

Vapour pressure: 4000 hPa
 (at 20 °C)

Density (at 20 °C): 0,81 g/cm³

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: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic: not determined

Vapour density: not determined

Evaporation rate: not determined

Solvent content: 72,5 %

9.2. Other information

Solid content: 27,5 %

No information available.

SECTION 10: Stability and reactivity

according to Regulation (EC) No 1907/2006

DINITROL 445 Spray

Revision date: 12.11.2019

Product code: 5069

Page 9 of 14

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Keep away from heat. Ignition hazard.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity

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

| CAS No | Chemical name | | | | |
|------------|---|---------------|-----------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 141-78-6 | ethyl acetate | | | | |
| | oral | LD50 mg/kg | 4935 | Rat | |
| | dermal | LD50 mg/kg | 5000 | Rabbit | |
| | inhalation (4 h) vapour | LC50 | 56 mg/l | Rat | |
| 106-97-8 | butane | | | | |
| | inhalation (4 h) gas | LC50 ppm | 273000 | Rat | GESTIS |
| 1330-20-7 | xylene | | | | |
| | oral | LD50 mg/kg | 4300 | Rat | GESTIS |
| | dermal | LD50 mg/kg | >1700 | Rabbit | GESTIS |
| | inhalation vapour | ATE | 11 mg/l | | |
| | inhalation (4 h) aerosol | LC50 | 21,7 mg/l | Rat | GESTIS |
| 64742-82-1 | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | | | |
| | oral | LD50 mg/kg | >150000 | Rat | |
| | dermal | LD50 mg/kg | >3400 | Rat | |

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

Contains Fatty acids, C18-unsatd., trimers, compds. with oleylamine, Fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

according to Regulation (EC) No 1907/2006

DINITROL 445 Spray

Revision date: 12.11.2019

Product code: 5069

Page 10 of 14

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

STOT-single exposure

May cause drowsiness or dizziness. (ethyl acetate)

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%); xylene)

Aspiration hazard

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

Further information

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

SECTION 12: Ecological information
12.1. Toxicity

There are no data available on the mixture itself.

| CAS No | Chemical name | | | | | |
|------------|---|-----------------|-----------|--------------------------------------|--------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 141-78-6 | ethyl acetate | | | | | |
| | Acute fish toxicity | LC50 230 mg/l | 96 h | Pimephales promelas (fathead minnow) | | |
| | Acute algae toxicity | ErC50 3300 mg/l | | Desmodesmus subspicatus | 48 h | |
| | Acute crustacea toxicity | EC50 717 mg/l | 48 h | Daphnia magna (Big water flea) | | |
| | Acute bacteria toxicity | (2900 mg/l) | | Pseudomonas putida | 16 h | |
| 64742-82-1 | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | | | | |
| | Acute fish toxicity | LC50 10 mg/l | 96 h | Oncorhynchus mykiss (Rainbow trout) | | |
| | Acute algae toxicity | ErC50 4,6 mg/l | 72 h | Pseudokirchneriella subcapitata | | |
| | Acute crustacea toxicity | EC50 10 mg/l | 48 h | Daphnia magna (Big water flea) | | |

12.2. Persistence and degradability

There are no data available on the mixture itself.

| CAS No | Chemical name | | | |
|------------|---|--------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 141-78-6 | ethyl acetate | | | |
| | OECD 301D/ EEC 92/69/V, C.4-E | 100 % | 28 | |
| | Readily biodegradable (according to OECD criteria). | | | |
| 64742-82-1 | Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) | | | |
| | | 74,7 % | 28 | |
| | Leicht biologisch abbaubar | | | |

12.3. Bioaccumulative potential

There are no data available on the mixture itself.

according to Regulation (EC) No 1907/2006

DINITROL 445 Spray

Revision date: 12.11.2019

Product code: 5069

Page 11 of 14

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|-----------|---------------|---------|
| 74-98-6 | propane | 2,36 |
| 106-97-8 | butane | 2,89 |
| 75-28-5 | isobutane | 2,8 |
| 1330-20-7 | xylene | 3 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|-----------|---------------|------|--|--------|
| 1330-20-7 | xylene | 25,9 | Oncorhynchus mykiss (Rainbow trout) | |

12.4. Mobility in soil

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

not applicable

12.6. Other adverse effects

No information available.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations
13.1. 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:

List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

Remove according to the regulations.

SECTION 14: Transport information
Land transport (ADR/RID)

- 14.1. UN number:** UN1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2
14.4. Packing group: -
 Hazard label: 2.1



Classification code: 5F

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 445 Spray

Revision date: 12.11.2019

Product code: 5069

Page 12 of 14

Special Provisions: 190 327 344 625
Limited quantity: 1 L
Transport category: 2
Tunnel restriction code: D

Other applicable information (land transport)
E0**Marine transport (IMDG)**

14.1. UN number: UN 1950
14.2. UN proper shipping name: AEROSOLS
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
Hazard label: 2.1



Marine pollutant: no
Special Provisions: 63, 190, 277, 327, 344, 959
Limited quantity: 1000 mL
Excepted quantity: E0
EmS: F-D, S-U

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN1950
14.2. UN proper shipping name: AEROSOLS, flammable
14.3. Transport hazard class(es): 2.1
14.4. Packing group: -
Hazard label: 2.1



Special Provisions: A145 A167 A802
Limited quantity Passenger: 30 kg G
IATA-packing instructions - Passenger: 203
IATA-max. quantity - Passenger: 75 kg
IATA-packing instructions - Cargo: 203
IATA-max. quantity - Cargo: 150 kg

Other applicable information (air transport)
E0
Passenger-LQ: Y203**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

Warning: Gases under pressure

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

Other applicable information

Stowage Code:
SW1 Protected from sources of heat.
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 445 Spray

Revision date: 12.11.2019

Product code: 5069

Page 13 of 14

1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

Segregation Code:

SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 28: butane; isobutane; Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

2004/42/EC (VOC): 73,0 % (592 g/l)

Additional information

Observe in addition any national regulations!

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

Water contaminating class (D):

2 - clearly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

SECTION 16: Other information
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%

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|-------------------------|-------------------------------|
| Aerosol 1; H222-H229 | On basis of test data |
| Skin Irrit. 2; H315 | Bridging principle "Aerosols" |
| Eye Irrit. 2; H319 | Bridging principle "Aerosols" |
| STOT SE 3; H336 | Bridging principle "Aerosols" |
| STOT RE 2; H373 | Bridging principle "Aerosols" |
| Aquatic Chronic 3; H412 | Calculation method |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

DINITROL 445 Spray

Revision date: 12.11.2019

Product code: 5069

Page 14 of 14

Relevant H and EUH statements (number and full text)

| | |
|--------|--|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| 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. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
| EUH208 | Contains Fatty acids,C18-unsatd. , trimers, compds. with oleylamine, Fatty acids, tall-oil, compds. with oleylamine. May produce an allergic reaction. |

Further Information

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.)