

CONDUCTIVE NICKEL COATING 3800N

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Detail : 3801N Conductive Silver Coating aerosol 400 ml
 Application of the substance / the preparation: Surface Coating. For industrial and professional use only.
 Manufacturer / supplier: Holland Shielding Systems B.V.
 Jacobus Lipsweg 124
 3316 BP Dordrecht
 the Netherlands
 Ph: +31(0)78- 204 90 00
 Fax: +31(0)78- 204 90 08
 www.hollandshielding.com
 info@hollandshielding.com

In an emergency, please contact your local/national poison control center (accessible only to medical personnel).

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

| Classification according to Regulation (EC) No 1272/2008 | | |
|--|-----------|--|
| Aerosol 1 | H222-H229 | Extremely flammable aerosol. Pressurised container: May burst if heated. |
| Skin Irrit. 2 | H315 | Causes skin irritation. |
| Skin. 1 | H317 | May cause an allergic skin reaction. |
| Carc. 2 | H351 | Suspected of causing cancer. Route of exposure: Inhalation. |
| Repr. 2 | H361d | Suspected of damaging the unborn child. |
| STOT RE 1 | H372-H373 | Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation. |
| Aquatic Chronic 3 | H412 | May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation. |
| Asp. Tox. 1 | H304 | Harmful to aquatic life with long lasting effects. |
| Aquatic Chronic 3 | H412 | |

2.2 Label Elements

| Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. | |
|---|---|
| Hazard pictograms |    |
| Signal Word: | Danger |

Hazard-determining components of labelling:

nickel powder (particle diameter < 1 mm)
 Toluene

| Hazard Statements | |
|-------------------|---|
| H222-H229 | Extremely flammable aerosol. Pressurised container: May burst if heated. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H351 | Suspected of causing cancer. Route of exposure: Inhalation. |
| H361d | Suspected of damaging the unborn child. |
| H372-H373 | Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation. May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation. |
| H412 | Harmful to aquatic life with long lasting effects. |

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| Precautionary Statements | |
|--------------------------|---|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P251 | Do not pierce or burn, even after use. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P405 | Store locked up. |
| P410+P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |







| Additional Information: | |
|-------------------------|---|
| Product contains: | Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9. Buildup of explosive mixtures possible without sufficient ventilation. |

2.3 Other Hazards







| Results of PBT and vPvB assessment | |
|------------------------------------|---------|
| PBT: CAS. 108-88-3 | Toluene |
| vPvB: CAS. 108-88-3 | Toluene |

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Chemical characterisation: Mixtures

| Description: Mixture of substances listed below with nonhazardous additions. | | |
|--|--|------------|
| Dangerous Components: | | |
| CAS No: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37 | dimethyl ether | >25- ≤50% |
| |  Flam. Gas 1A, H220; Press. Gas (Comp.), H280 | |
| CAS No: 7440-02-0 EINECS: 231-111-4 Reg.nr.: 01-2119438727-29 | nickel powder (particle diameter < 1 mm) | >25- ≤50% |
| |  Carc. 2, H351 STOT RE 1, H372 | |
| CAS No: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx | Xylene (mix) | >10- ≤25% |
| |  Flam. Liq. 3, H226 | |
| CAS No: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51-xxxx | Toluene | >2.5- ≤10% |
| |  Repr. 2, H361d STOT RE 2, H373 Asp. Tox. 1, H304 | |
| CAS No: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-XXXX | Butyl ethanoate | >2.5- ≤10% |
| |  Flam. Liq. 3, H226 | |
| |  STOT SE 3, H336 | |

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| | | |
|--|---|-----------|
| CAS No: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx | propan-2-one  Flam. Liq. 2, H225 | >1- ≤2.5% |
| |  Eye Irrit. 2, H319 STOT SE 3, H336 | |
| CAS No: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29 | 2-methoxy-1-methylethyl acetate  Flam. Liq. 3, H226 | >1- ≤2.5% |
| | ethylbenzene  Flam. Liq. 2, H225 | |
| CAS No: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35 |  STOT RE 2, H373 Asp. Tox. 1, H304 | >1- ≤2.5% |
| |  Acute Tox. 4, H332 | |
| | | |

Additional Information:

For the wording of the listed hazard phrases refer to section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

| | |
|---------------------|--|
| General information | Immediately remove any clothing soiled by the product. |
| After inhalation | Supply fresh air and call for a doctor. In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints. |
| After skin contact | Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Immediately rinse with water. |
| After eye contact | Rinse opened eye for several minutes under running water. |
| After swallowing | Do not induce vomiting; call for medical help immediately and show safety datasheet or label. |

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

| | |
|--------------------------------|---|
| Suitable extinguishing agents: | CO ₂ , powder or water spray. Fight larger fires with water spray or alcohol resistant foam. |
|--------------------------------|---|

5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

5.3 Advice for firefighters

| | |
|-----------------------|--------------------------------------|
| Protective equipment: | Mount respiratory protective device. |
|-----------------------|--------------------------------------|



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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. HANDLING AND STORAGE

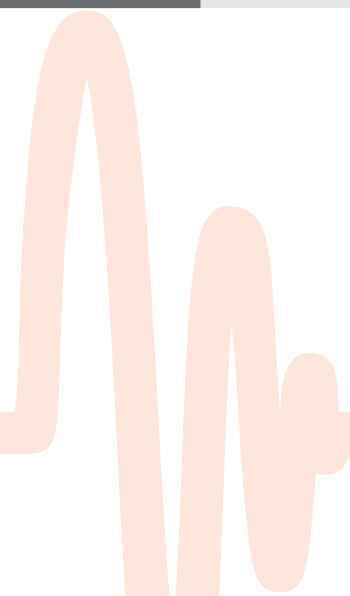
7.1 Precautions for safe handling

Ensure good ventilation/extraction at the workplace.
Open and handle receptacle with care.

| | |
|--|--|
| Hygiene measures | Wash hands before breaks and at the end of workday. |
| Information about fire- and explosion protection | Do not spray onto a naked flame or any incandescent material. Keep ignition sources away - Do not smoke. Keep respiratory protective device available. |
| Pressurised 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. |

7.2 Conditions for safe storage, including any incompatibilities

| | |
|--|--|
| | Storage: |
| Requirements to be met by storerooms and receptacles | Observe official regulations on storing packagings with pressurised containers. |
| Information about storage in one common storage facility | Not required. |
| Further information about storage conditions | Keep receptacle tightly sealed and in a well-ventilated place. Keep away from heat. |



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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Additional information about design of technical facilities:

No further data; see section 7.

Ingredients with limit values that require monitoring at the workplace: WELs (Workplace Exposure Limits)

| | | | | |
|-------------------|--|-----------------------------------|----------|--|
| CAS No. 115-10-6 | dimethyl ether | | | |
| WEL | Short-term value: | 958 mg/m ³ , 500 ppm | | |
| | Long-term value: | 766 mg/m ³ , 400 ppm | | |
| CAS No. 7440-02-0 | nickel powder (particle diameter < 1 mm) | | | |
| WEL | Long-term value: | 0.5 mg/m ³ as Ni | Sk; Carc | |
| CAS No. 1330-20-7 | Xylene (mix) | | | |
| WEL | Short-term value: | 441 mg/m ³ , 100 ppm | Sk; BMGV | |
| | Long-term value: | 220 mg/m ³ , 50 ppm | | |
| CAS No. 108-88-3 | Toluene | | | |
| WEL | Short-term value: | 384 mg/m ³ , 100 ppm | Sk | |
| | Long-term value: | 191 mg/m ³ , 50 ppm | | |
| CAS No. 123-86-4 | Butyl ethanoate | | | |
| WEL | Short-term value: | 966 mg/m ³ , 200 ppm | | |
| | Long-term value: | 724 mg/m ³ , 150 ppm | | |
| CAS No. 67-64-1 | propan-2-one | | | |
| WEL | Short-term value: | 3620 mg/m ³ , 1500 ppm | | |
| | Long-term value: | 1210 mg/m ³ , 500 ppm | | |
| CAS No. 108-65-6 | 2-methoxy-1-methylethyl acetate | | | |
| WEL | Short-term value: | 548 mg/m ³ , 100 ppm | Sk | |
| | Long-term value: | 274 mg/m ³ , 50 ppm | | |
| CAS No. 100-41-4 | ethylbenzene | | | |
| WEL | Short-term value: | 552 mg/m ³ , 125 ppm | Sk | |
| | Long-term value: | 441 mg/m ³ , 100 ppm | | |

DNELs

| | | | | |
|-------------------|--|--------------------------------|------------------------------|--|
| CAS No. 115-10-6 | dimethyl ether | | | |
| Inhalative | DNEL | 471 mg/m ³ (Con) | | |
| | | 1,894 mg/m ³ (Ind) | | |
| CAS No. 7440-02-0 | nickel powder (particle diameter < 1 mm) | | | |
| Dermal | DNEL | 0.035 mg/day (Human) | | |
| Inhalative | DNEL | 0.05 mg/m ³ (Human) | | |
| CAS No. 1330-20-7 | Xylene (mix) | | | |
| Dermal | DNEL | 108 mg/day (Con) | | |
| | | 180 mg/day (Ind) | | |
| | Inhalative | DNEL | 14.8 mg/m ³ (Con) | |
| | | | 77 mg/m ³ (Ind) | |
| CAS No. 108-88-3 | Toluene | | | |
| Oral | DNEL | 8.13 mg/day (Con) | | |
| Dermal | DNEL | 226 mg/day (Con) | | |
| | | 384 mg/day (Ind) | | |
| | Inhalative | DNEL | 56.5 mg/m ³ (Con) | |
| | | | 192 mg/m ³ (Ind) | |



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| CAS No. 123-86-4 | Butyl ethanoate | |
|------------------|---------------------------------|-------------------------------|
| Oral | DNEL | 2 mg/day (Con) |
| Dermal | DNEL | 6 mg/day (Con) |
| | | 11 mg/day (Ind) |
| Inhalative | DNEL | 35.7 mg/m ³ (Con) |
| | | 300 mg/m ³ (Ind) |
| CAS No. 67-64-1 | Propan-2-one | |
| Oral | DNEL | 62 mg/day (Con) |
| Dermal | DNEL | 62 mg/day (Con) |
| | | 186 mg/day (Ind) |
| Inhalative | DNEL | 200 mg/m ³ (Con) |
| | | 1,210 mg/m ³ (Ind) |
| CAS No. 108-65-6 | 2-methoxy-1-methylethyl acetate | |
| Oral | DNEL | 1.67 mg/day (Con) |
| Dermal | DNEL | 54.8 mg/day (Con) |
| | | 153.5 mg/day (Ind) |
| Inhalative | DNEL | 33 mg/m ³ (Con) |
| | | 275 mg/m ³ (Ind) |

PNECs

| CAS No. 1330-20-7 | Xylene mixed isomers | |
|-------------------------------|----------------------|--------------|
| Fresh water; | PNEC | 0.327 mg/l |
| Marine water; | | 0.327 mg/l |
| Intermittent release; | | 0.327 mg/l |
| STP (sewage-treatment plant); | | 6.58 mg/l |
| Sediment (Freshwater); | | 12.46 mg/kg |
| Sediment (Marinewater); | | 12.46 mg/kg |
| Soil; | | 2.31 mg/kg |
| CAS No. 123-86-4 | Butyl Acetate | |
| Fresh water; | PNEC | 0.18 mg/l |
| Marine water; | | 0.018 mg/l |
| Intermittent use/release; | | 0.36 mg/l |
| STP (sewage-treatment plant); | | 35.6 mg/l |
| Sediment (Freshwater); | | 0.981 mg/kg |
| Sediment (Marinewater); | | 0.0981 mg/kg |
| Soil; | | 0.0903 mg/kg |

Ingredients with Biological Limit Values:




| CAS No. 1330-20-7 | Xylene (mix) | |
|-------------------|----------------|----------------------|
| BMGV | 650 mmol/mol | creatinine |
| | Medium: | urine |
| | Sampling time: | post shift |
| | Parameter: | methyl hippuric acid |

Additional information:

The lists valid during the making were used as basis.

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8.2 Exposure controls

| 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. Store protective clothing separately. Avoid contact with the skin. Avoid contact with the eyes and skin. |
| Respiratory protection | When spraying the product, use a respiratory protective device.  |
| Protection of hands | When skin exposure may occur, advice should be sought from the glove supplier on appropriate types and usage times for this product.  |
| Eye protection | Safety glasses  Tightly sealed goggles |

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information:

| Appearance | |
|--|------------------------------------|
| Form: | Aerosol |
| Colour: | According to product specification |
| Odour: | Characteristic |
| Odour threshold: | Not determined. |
| pH-value: | Not determined. |
| Change in condition | |
| Melting point/freezing point: | Undetermined. |
| Initial boiling point and boiling range: | 56 °C |
| Flash point: | -42 °C |
| Flammability (solid, gas): | Not applicable. |
| Auto-ignition temperature: | 235 °C |
| Decomposition temperature: | Not determined. |
| Ignition temperature: | Product is not selfigniting. |
| Explosive properties: | Heating may cause an explosion |
| Explosion limit (Lower) | 1.1 Vol % |
| Explosion limit (Upper) | 18.6 Vol % |
| Vapour pressure at 20 °C: | 5,200 hPa |
| Density at 20 °C: | 1.028 g/cm ³ |
| Relative density | Not determined. |
| Vapour density | Not determined. |
| Evaporation rate | Not applicable. |
| Solubility in / Miscibility with water: | NOT MISCIBLE |
| Partition coefficient: n-octanol/water: | Not determined. |
| Viscosity (Dynamic) | Not determined. |
| Viscosity (Kinematic) | Not determined. |
| Solvent content: | |
| Organic solvents: | 61.4% |
| Solids content: | 38.6 % |



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9.2 Other information

No further relevant information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No dangerous decomposition products when stored and handled correctly

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

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

LD/LC50 values relevant for classification:

| | | | |
|-------------------|--|----------------------|--|
| CAS No. 115-10-6 | dimethyl ether | | |
| Inhalative | LC50/4 h | 248.49 mg/l (rat) | |
| CAS No. 7440-02-0 | nickel powder (particle diameter < 1 mm) | | |
| Oral | LD50 | >9,000 mg/kg (Rat) | |
| CAS No. 1330-20-7 | Xylene (mix) | | |
| Oral | LD50 | 5,000 mg/kg (Rat) | |
| Dermal | LD50 | 2,000 mg/kg (rbt) | |
| Inhalative | LC50/4 h | 11 mg/l (Rat) | |
| CAS No. 108-88-3 | Toluene | | |
| Oral | LD50 | 5,580 mg/kg (Rat) | |
| Dermal | LD50 | 5,000 mg/kg (Rab) | |
| Inhalative | LC50/4 h | 20 mg/l (Rat) | |
| CAS No. 123-86-4 | Butyl ethanoate | | |
| Oral | LD50 | 10,760 mg/kg (rat) | |
| Dermal | LD50 | 14,112 mg/kg (Rab) | |
| Inhalative | LC50/4 h | 23.4 mg/l (Rat) | |
| CAS No. 67-64-1 | propan-2-one | | |
| Oral | LD50 | 5,800 mg/kg (Rat) | |
| Dermal | LD50 | 7,400 mg/kg (Rabbit) | |
| Inhalative | LC50/4 h | 76 mg/l (Rat) | |
| CAS No. 108-65-6 | 2-methoxy-1-methylethyl acetate | | |
| Oral | LD50 | >5,000 mg/kg (rat) | |
| Dermal | LD50 | 5,000 mg/kg (Rat) | |
| Inhalative | LC50/4 h | >10.8 mg/l (Rat) | |
| CAS No. 100-41-4 | ethylbenzene | | |
| Oral | LD50 | 3,500 mg/kg (rat) | |
| Dermal | LD50 | 17,800 mg/kg (rbt) | |

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Primary irritant effect

| | |
|-----------------------------------|---|
| Skin corrosion/irritation | Causes skin irritation. |
| Serious eye damage/irritation | Based on available data, the classification criteria are not met. |
| Respiratory or skin sensitisation | May cause an allergic skin reaction. |

Additional toxicological information

| CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) | |
|---|---|
| Germ cell mutagenicity | Based on available data, the classification criteria are not met. |
| Carcinogenicity | Suspected of causing cancer. Route of exposure: Inhalation. |
| Reproductive toxicity | Suspected of damaging the unborn child. |
| STOT-single exposure | Based on available data, the classification criteria are not met. |
| STOT-repeated exposure | Causes damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation. May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Inhalation. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:

| Acute Fish toxicity | |
|------------------------------|---------------------------------------|
| n-Butyl acetate | LC50 18 mg/l |
| Species: | Pimephales promelas (fathead minnow) |
| Exposure duration: | 96 h |
| Chronic Fish toxicity | |
| n-Butyl acetate | No Data Available |
| Acute toxicity for daphnia | |
| n-Butyl acetate | EC50 44 mg/l |
| Species: | Daphnia (water flea) |
| Exposure duration: | 48 h |
| Chronic toxicity for daphnia | |
| n-Butyl acetate | NOEC 23 mg/l |
| Species: | Daphnia magna (water flea) |
| Exposure duration: | 21 d |
| Method: | OECD Test Guideline 211 |
| Acute toxicity for Algae | |
| n-Butyl acetate | EC50 675 mg/l |
| Species: | Scenedesmus quadricauda (Green algae) |
| Exposure duration: | 72 h |
| Acute bacterial Toxicity | |
| n-Butyl acetate | EC50 356 mg/l |
| Species: | Activated sludge |
| Exposure duration: | 40 h |

12.2 Persistence and degradability

No further relevant information available.

12.3 Bio accumulative potential

No further relevant information available.



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12.4 Mobility in soil

No further relevant information available.

Ecotoxicological effects: Remark: Harmful to fish

Additional ecological information:

General notes

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
Harmful to aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: CAS No. 108-88-3 Toluene

vPvB: CAS No. 108-88-3 Toluene

12.6 Other adverse effects

No further relevant information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation:

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

Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

14.1 UN Number

ADR, IMDG, IATA

UN1950

14.2 UN Proper Shipping Name

ADR
IMDG
IATA

1950 Aerosols
Aerosols
Aerosols, flammable

14.3 Transport Hazard Class

ADR
Class
Label
IMDG, IATA
Class
Label


2 5F Gases
2.1

2.1 Gases
2.1

14.4 Packing Group

ADR, IMDG, IATA

Void

14.5 Environmental hazard

Marine pollutant

No

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14.6 Special precautions for user

| | | |
|---|--|---|
| Warning: | Gases. | |
| Hazard identification number (Kemler code): | - | |
| EMS Number: | F-D, S-U | |
| 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 1 litre | |
| | Category B. For WASTE AEROSOLS | |
| Segregation Code | Category C, Clear of living quarters. | |
| | SG69 For AEROSOLS with 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 |

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

Not applicable.

Transport/Additional information:

| | | |
|------------------------------------|-----------------------|--|
| | ADR | |
| Limited quantities (LQ) | 1L | |
| Excepted quantities (EQ) | Code: E0 | |
| Not permitted as Excepted Quantity | | |
| Transport category | 2 | |
| Tunnel restriction code | D | |
| | IMDG | |
| Limited quantities (LQ) | 1L | |
| Excepted quantities (EQ) | Code: E0 | |
| Not permitted as Excepted Quantity | | |
| UN "Model Regulation" | UN 1950 AEROSOLS, 2.1 | |

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

| | |
|----------------------------------|--|
| Poisons Act | |
| Regulated explosives precursors | None of the ingredients is listed. |
| Regulated poisons | None of the ingredients is listed. |
| Reportable explosives precursors | 67-64-1 propan-2-one Listed |
| Reportable poisons | None of the ingredients is listed. |
| Directive 2012/18/EU | Named dangerous substances- ANNEX I None of the ingredients is listed. |
| Seveso category P3a | FLAMMABLE AEROSOLS Qualifying quantity (tonnes) for the application of lower-tier requirements 150 t Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t |
| National regulations: | Technical instructions (air): CLASS Share in % NK 61.4 |
| Waterhazard class: | Water hazard class 2 (Self-assessment): hazardous for water. |

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.



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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.

Full text of H-Statements referred to under sections 2 and 3:

| | |
|-------------------------|--|
| H220 | Extremely flammable gas. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| 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. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer. |
| H361d | Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Department issuing SDS: | Product safety department: LABORATORY |

Abbreviations and acronyms

| | |
|--------------------|---|
| RID | Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) |
| ICAO | International Civil Aviation Organisation |
| ADR | Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society) |
| WEL | Workplace Exposure Limit |
| DNEL | Derived No-Effect Level (UK REACH) |
| PNEC | Predicted No-Effect Concentration (UK REACH) |
| LC50 | Lethal concentration, 50 percent |
| LD50 | Lethal dose, 50 percent |
| PBT | Persistent, Bioaccumulative and Toxic |
| vPvB | very Persistent and very Bioaccumulative |
| Flam. Gas 1A | Flammable gases – Category 1A |
| Aerosol 1 | Aerosols – Category 1 |
| Press. Gas (Comp.) | Gases under pressure – Compressed gas |
| Flam. Liq. 2 | Flammable liquids – Category 2 |
| Flam. Liq. 3 | Flammable liquids – Category 3 |
| Acute Tox. 4 | Acute toxicity – Category 4 |
| Skin Irrit. 2 | Skin corrosion/irritation – Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation – Category 2 |
| Skin Sens. 1 | Skin sensitisation – Category 1 |
| Repr. 2 | Reproductive toxicity – Category 2 |
| Carc. 2 | Carcinogenicity – Category 2 |
| STOT SE 3 | Specific target organ toxicity (single exposure) – Category 3 |
| STOT RE 1 | Specific target organ toxicity (repeated exposure) – Category 1 |
| STOT RE 2 | Specific target organ toxicity (repeated exposure) – Category 2 |
| Asp. Tox. 1 | Aspiration hazard – Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 |