

SAFETY DATA SHEET

in accordance with 2020/878/EU (REACH, Annex II) 29 CFR 1910.1200, WHMIS 2015 and Safe Work Australia

Revision date: 5 December 2023

Date of previous issue: 20 April 2023

SDS No. 157A-25

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

725 Nickel Anti-Seize Compound (Aerosol)

Unique Formula Identifier (UFI): 3UT5-JQ97-CTHS-S9PM

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Petroleum base assembly lubricant. Use on stainless steel, steel, iron, aluminum, copper, brass, titanium, etc. Do not use on oxygen systems.

Uses advised against: No information available

Reason why uses advised against: Not applicable

1.3. Details of the supplier of the safety data sheet

Company:

A.W. CHESTERTON COMPANY
860 Salem Street
Groveland, MA 01834-1507, USA
Tel. +1 978-469-6446 Fax: +1 978-469-6785
(Mon. - Fri. 8:30 - 5:00 PM EST)
SDS requests: www.chesterton.com
E-mail (SDS questions): ProductSDSs@chesterton.com
E-mail: customer.service@chesterton.com

Supplier:

Canada: A.W. Chesterton Company Ltd., 889 Fraser Drive,
Unit 105, Burlington, Ontario L7L 4X8 – Tel. 905-335-5055
EU: Chesterton International GmbH, Am Lenzenfleck 23,
D85737 Ismaning, Germany – Tel. +49-89-996-5460

1.4. Emergency telephone number

24 hours per day, 7 days per week
Call Infotrac: 1-800-535-5053
Outside N. America: +1 352-323-3500 (collect)
NSW Poisons Information Centre (Australia): 13 11 26

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP] / Safe Work Australia

Aerosol, Category 1, H222
Skin irritation, Category 2, H315
Skin sensitization, Category 1, H317
Specific target organ toxicity – single exposure, Category 3, H336
Carcinogenicity, Category 2, H351 (inhalation)
Specific target organ toxicity – repeated exposure, Category 1, H372 (lungs, inhalation)
Hazardous to the aquatic environment, Chronic, Category 1, H410

2.1.2. Classification according to 29 CFR 1910.1200 / WHMIS 2015

Flammable aerosol, Category 1, H222
Compressed gas, H280
Skin irritation, Category 2, H351
Skin sensitization, Category 1, H317
Specific target organ toxicity – single exposure, Category 3, H336
Carcinogenicity, Category 2, H351 (inhalation)
Specific target organ toxicity – repeated exposure, Category 1, H372 (lungs, inhalation)
Hazardous to the aquatic environment, Chronic, Category 1, H410

2.1.3. Additional information

For full text of H-statements: see SECTIONS 2.2 and 16.

2.2. Label elements**2.2.1. Labelling according to Regulation (EC) No 1272/2008 [CLP] / Safe Work Australia****Hazard pictograms:****Signal word:**

Danger

Hazard statements:

| | |
|------|--|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurized container: May burst if heated. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer by inhalation. |
| H372 | Causes damage to the lungs through prolonged or repeated exposure by inhalation. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Precautionary statements:

| | |
|----------|--|
| P201 | Obtain special instructions before use. |
| 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 vapours/spray. |
| P280 | Wear protective gloves and eye protection. |
| P308/313 | IF exposed or concerned: Get medical advice/attention. |
| P410/412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |

Supplemental information:

None

2.2.2. Labelling according to 29 CFR 1910.1200 / WHMIS 2015**Hazard pictograms:****Signal word:**

Danger

Hazard statements:

| | |
|------|--|
| H222 | Extremely flammable aerosol. |
| H280 | Contains gas under pressure; may explode if heated. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |
| H351 | Suspected of causing cancer by inhalation. |
| H372 | Causes damage to the lungs through prolonged or repeated exposure by inhalation. |
| H410 | Very toxic to aquatic life with long lasting effects. |

| | | |
|----------------------------------|----------|--|
| Precautionary statements: | P201 | Obtain special instructions before use. |
| | 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 vapours/spray. |
| | P264 | Wash skin thoroughly after handling. |
| | P270 | Do not eat, drink or smoke when using this product. |
| | P271 | Use only outdoors or in a well-ventilated area. |
| | P272 | Contaminated work clothing must not be allowed out of the workplace. |
| | P273 | Avoid release to the environment. |
| | P280 | Wear protective gloves and eye protection. |
| | P302/352 | IF ON SKIN: Wash with plenty of soap and water. |
| | P304/340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| | P308/313 | IF exposed or concerned: Get medical advice/attention. |
| | P362/364 | Take off contaminated clothing and wash it before reuse. |
| | P403 | Store in a well-ventilated place. |
| | P410/412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
| | P501 | Dispose of contents/container to an approved waste disposal plant. |

Supplemental information: None

2.3. Other hazards

None

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

| Hazardous Ingredients ¹ | % Wt. | CAS No./ EC No. | REACH Reg. No. | CLP/GHS Classification | SCL, M-factor, ATE |
|--|-------|-------------------------|-------------------|--|--|
| Naphtha (petroleum), hydrotreated light* | 30-40 | 64742-49-0 265-151-9 | NA | Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Aquatic Chronic 2, H411 | ATE (oral): > 5,000 mg/kg ATE (dermal): > 2,000 mg/kg ATE (inhalation, mist): > 5.61 mg/l |
| Distillates (petroleum), hydrotreated heavy naphthenic** | 10-20 | 64742-52-5 265-155-0 | NA | Asp. Tox. 1, H304 | ATE (oral): > 5,000 mg/kg ATE (dermal): > 3,000 mg/kg ATE (inhalation, mist): > 5 mg/l |
| Nickel | 7-13 | 7440-02-0 231-111-4 | NA | Carc. 2, H351 (inhalation) STOT RE 1, H372 (lungs, inhalation) Skin Sens. 1, H317 Aquatic Chronic 3, H412 | ATE (oral): > 9,000 mg/kg |
| Propane | 7-13 | 74-98-6 200-827-9 | NA | Flam. Gas 1, H220 Press. Gas (Comp.), H280 Simple Asphyxiant (US/Can.) | ATE (inhalation, vapour): 658 mg/l |
| Butane*** | 7-13 | 106-97-8 203-448-7 | NA | Flam. Gas 1, H220 Press. Gas (Comp.), H280 Simple Asphyxiant (US/Can.) | ATE (inhalation, vapour): 30.96 mg/l |

| | | | | | |
|----------|---------|----------------------|----|--|--|
| Methanol | 0.1-0.2 | 67-56-1 200-659-6 | NA | Flam. Liq. 2, H225 Acute Tox. 3, H331, H311, H301 Eye Irrit. 2, H319 STOT SE 1, H370 | STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 % ATE (oral): 100 mg/kg ATE (dermal): 300 mg/kg ATE (inhalation, vapour): 3 mg/l |
|----------|---------|----------------------|----|--|--|

Other ingredients:

| | | | | | |
|----------|-----|------------------------|----------------------|-------------------------------|---------------------------|
| Aluminum | 1-5 | 7429-90-5 231-072-3 | NA | Not classified ^{a,b} | NA |
| Graphite | 1-5 | 7782-42-5 231-955-3 | 01-211948 6977-12 | Not classified ^b | ATE (oral): > 2,000 mg/kg |

*Contains less than 0.1 % w/w Benzene. **Contains less than 3 % DMSO extract as measured by IP 346. ***Contains less than 0.1 % w/w 1,3-Butadiene. ^aNot classified for flammability and water-reactivity based on the results of UN tests N.1 and N.5, respectively. ^bSubstance with a workplace exposure limit.

For full text of H-statements: see SECTION 16.

¹ Classified according to: • 29 CFR 1910.1200, 1915, 1916, 1917, Mass. Right-to-Know Law (ch. 40, M.G.L..O. 111F)
• 1272/2008/EC, GHS, REACH
• WHMIS 2015
• Safe Work Australia

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures**

Inhalation: Remove to fresh air. If not breathing, administer artificial respiration. Contact physician.

Skin contact: Wash skin with soap and water. Take off contaminated clothing and wash it before reuse. Contact physician if irritation persists.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: Do not induce vomiting. Contact physician immediately.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. Avoid contact with the product while providing aid to the victim. Do not breathe vapours. See section 8.2.2 for recommendations on personal protective equipment.

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

Irritating to skin. May cause skin sensitization as evidenced by rashes or hives. High vapor concentrations may cause eye and respiratory tract irritation, dizziness, headache and other central nervous system effects.

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

Treat symptoms.

SECTION 5: FIREFIGHTING MEASURES**5.1. Extinguishing media**

Suitable extinguishing media: Carbon dioxide, dry chemical, foam or water fog

Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products: Carbon Monoxide, Carbon Dioxide, aldehydes and other toxic fumes.

Other hazards: Pressurized containers, when heated, are a potential explosive hazard.

5.3. Advice for firefighters

Cool exposed containers with water. Recommend Firefighters wear self-contained breathing apparatus.

Australian HAZCHEM Emergency Action Code: 2 Y

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Utilize exposure controls and personal protection as specified in Section 8.

6.2. Environmental Precautions

Keep out of sewers, streams and waterways.

6.3. Methods and material for containment and cleaning up

Scoop up and transfer to a suitable container for disposal. Keep away from sources of ignition - No smoking.

6.4. Reference to other sections

Refer to section 13 for disposal advice.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Observe good work practice - avoid eating, drinking and smoking in the work area while using any hydrocarbons. Do not breathe vapours/spray. Utilize exposure controls and personal protection as specified in Section 8. Remove contaminated clothing and wash before reuse. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No Smoking.

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn, even after use.

7.3. Specific end use(s)

Petroleum base. Use on stainless steel, steel, iron, aluminum, copper, brass, titanium, etc. Do not use on oxygen systems. Refer to the product instructions and product data sheet for more detailed application information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters****Occupational exposure limit values**

| Ingredients | OSHA PEL ¹ | | ACGIH TLV ² | | UK WEL ³ | | AUSTRALIA ES ⁴ | |
|---|-----------------------|-------------------|------------------------|-------------------|---------------------|-------------------|---------------------------|-------------------|
| | ppm | mg/m ³ | ppm | mg/m ³ | ppm | mg/m ³ | ppm | mg/m ³ |
| Naphtha (petroleum), hydrotreated light | N/A | N/A | 247* | 1,200* | N/A | N/A | N/A | N/A |
| Oil mist, mineral | N/A | 5 | N/A | 5 | N/A | N/A | N/A | 5 |
| Nickel** | (total dust) | 1 | (inhalable) | 1.5 | N/A | 0.5 | (total dust) | 1 |
| Propane | 1,000 | 1,800 | *** | N/A | N/A | N/A | *** | N/A |
| Butane | N/A | N/A | 1,000 | N/A | 600 | 1,450 | 800 | 1,900 |
| | | | | | STEL: | | | |
| | | | | | 750 | 810 | | |
| Methanol | 200 | 260 | 200 | (skin) | 200 | 266 | 200 | 262 |
| | | | STEL: | | STEL: | | (skin) | |
| | | | 250 | | 250 | 333 | STEL: | 328 |
| | | | | | | | 250 | |
| Aluminum** | (total) | 15 | (resp.) | 1 | (inhal.) | 10 | N/A | 10 |
| | (resp.) | 5 | | | (resp.) | | | |
| | | | | | | 4 | | |
| Graphite** | (total) | 15 | (resp.) | 2 | (total) | 10 | (resp.) | 3 |
| | (resp.) | 5 | | | (resp.) | 4 | | |

*Based on the procedure described in appendix H, "Reciprocal calculation method for Certain Refined Hydrocarbon Solvent Vapor Mixtures" of the ACGIH TLVs® and BEIs®.

**The nickel, aluminum and graphite in this product do not separate from the mixture or in of themselves become airborne, therefore, do not present a hazard in normal use.

***Simple asphyxiant.

¹ United States Occupational Health & Safety Administration permissible exposure limits

² American Conference of Governmental Industrial Hygienists threshold limit values

³ EH40 Workplace exposure limits, Health & Safety Executive

⁴ Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants

Biological limit values

Methanol:

| Control parameter | Biological specimen | Sampling Time | Limit value | Source | Notes |
|-------------------|---------------------|---------------|-------------|--------|-------------------------|
| Methanol | Urine | End of shift | 15 mg/l | ACGIH | Background, Nonspecific |

Derived No Effect Level (DNEL) according to Regulation (EC) No 1907/2006:**Workers**

| Substance | Route of exposure | Potential health effects | DNEL |
|--|-------------------|---------------------------|---------------------------------|
| Distillates (petroleum), hydrotreated heavy naphthenic | Inhalation | Chronic effects, local | 5.58 mg/m ³ (GESTIS) |
| Nickel | Inhalation | Acute effects, local | 11.9 mg/m ³ |
| | | Chronic effects, local | 0.05 mg/m ³ |
| | | Chronic effects, systemic | 0.05 mg/m ³ |
| Aluminum | Dermal | Chronic effects, local | 0.035 mg/cm ² |
| | Inhalation | Chronic effects, local | 3.72 mg/m ³ (GESTIS) |
| Graphite | Inhalation | Acute effects, local | 1.2 mg/m ³ (GESTIS) |
| | | Chronic effects, local | 1.2 mg/m ³ (GESTIS) |
| Methanol | Inhalation | Acute effects, local | 130 mg/m ³ |
| | | Acute effects, systemic | 130 mg/m ³ |
| | | Chronic effects, local | 130 mg/m ³ |
| | Dermal | Chronic effects, systemic | 130 mg/m ³ |
| | | Acute effects, local | * |
| | | Acute effects, systemic | 20 mg/kg/day |
| | | Chronic effects, local | * |
| | | Chronic effects, systemic | 20 mg/kg/day |

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No 1907/2006:

| Substance | Environmental protection target | PNEC |
|-----------|---|----------------------|
| Nickel | Fresh water | 7.1 µg/l |
| | Freshwater sediments | 109 mg/kg |
| | Marine water | 8.6 µg/l |
| | Marine sediments | 109 mg/kg |
| Methanol | Soil (agricultural) | 29.9 mg/kg |
| | Fresh water / Marine water | No hazard identified |
| | Freshwater sediments / Marine sediments | No hazard identified |
| | Microorganisms in sewage treatment | No hazard identified |
| | Soil (agricultural) | No hazard identified |
| | Air | No hazard identified |

8.2. Exposure controls**8.2.1. Engineering measures**

Use only in well-ventilated areas. If exposure limits are exceeded, provide adequate ventilation.

8.2.2. Individual protection measures

Respiratory protection: Not normally needed. In case of insufficient ventilation, utilize an approved organic vapor respirator (e.g., EN filter type A/P2).

Protective gloves: Chemical resistant gloves

Nickel:

| Contact type | Glove material | Layer thickness | Breakthrough time * |
|--------------|----------------|-----------------|---------------------|
| Full | Nitrile rubber | 0.11 mm | > 480 min. |
| Splash | Nitrile rubber | 0.11 mm | > 480 min. |

*Determined according to EN374 standard.

Eye and face protection: Safety glasses

Other: None

8.2.3. Environmental exposure controls

Refer to sections 6 and 12.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

| | | | |
|---|---------------------------|--|-------------------|
| Physical state | liquid | pH | not applicable |
| Colour | gray | Kinematic viscosity | 225 cSt @ 40°C |
| Odour | petroleum | Solubility in water | insoluble |
| Odour threshold | no data available | Partition coefficient n-octanol/water (log value) | not applicable |
| Boiling point or range | 121°C (250°F) | Vapour pressure @ 20°C | not determined |
| Melting point/freezing point | not determined | Density and/or relative density | 0.9 kg/l |
| % Volatile (by volume) | 76.9% | Weight per volume | 7.8 lbs/gal. |
| Flammability | ignitable | Vapour density (air=1) | > 1 |
| Lower/upper flammability or explosion limits | not determined | Rate of evaporation (ether=1) | < 1 |
| Flash point | 17°C (63°F), product only | % Aromatics by weight | 3.6% maximum |
| Method | PM Closed Cup | Particle characteristics | not applicable |
| Autoignition temperature | not determined | Explosive properties | no data available |
| Decomposition temperature | no data available | Oxidising properties | no data available |

9.2. Other information

None

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

No data available for the mixture. Nickel can react vigorously with acids to liberate hydrogen, which can form explosive mixtures with air.

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use.

10.4. Conditions to avoid

Open flames, heat, sparks and red hot surfaces.

10.5. Incompatible materials

Strong acids, alkalis and strong oxidizers like liquid Chlorine and concentrated Oxygen.

10.6. Hazardous decomposition products

Carbon Monoxide, Carbon Dioxide, aldehydes and other toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 / GHS**

Primary route of exposure under normal use: Inhalation, skin and eye contact. Personnel with pre-existing skin disorders are generally aggravated by exposure.

Acute toxicity -**Oral:**

| Substance | Test | Result |
|--|-------------------|--------------------------|
| Naphtha (petroleum), hydrotreated light | LD50, rat | > 5,000 mg/kg |
| Distillates (petroleum), hydrotreated heavy naphthenic | LD50 rat | > 5,000 mg/kg, estimated |
| Nickel | LD50, rat | > 9,000 mg/kg |
| Methanol | LD50, rat | 5,628 mg/kg |
| Methanol | Human lethal dose | 143 mg/kg |

Dermal:

| Substance | Test | Result |
|--|--------------|--------------------------|
| Naphtha (petroleum), hydrotreated light | LD50, rabbit | > 2,000 mg/kg |
| Distillates (petroleum), hydrotreated heavy naphthenic | LD50, rat | > 3,000 mg/kg, estimated |

Inhalation: High vapor concentrations may cause eye and respiratory tract irritation, dizziness, headache and other central nervous system effects.

| Substance | Test | Result |
|--|--------------------|---------------------|
| Naphtha (petroleum), hydrotreated light | LC50, rat, 4 hours | > 5.61 mg/l |
| Distillates (petroleum), hydrotreated heavy naphthenic | LC50, rat, 4 hours | > 5 mg/l, estimated |
| Nickel | NOAEC, rat, 1 h, | > 10.2 mg/l |
| Methanol | LC50, rat, 4 hours | 64,000 ppm (V) |
| Propane | LC50, rat, 4 hours | 658 mg/l |
| Butane | LC50, rat, 4 hours | 30.96 mg/l |

Skin corrosion/irritation: Irritating to skin.

| Substance | Test | Result |
|--|-------------------------------------|----------------|
| Naphtha (petroleum), hydrotreated light | Skin irritation, (OECD 404), rabbit | Irritating |
| Distillates (petroleum), hydrotreated heavy naphthenic | Skin irritation, rabbit | Not irritating |

Serious eye damage/irritation:

| Substance | Test | Result |
|--|-----------------------------------|----------------|
| Naphtha (petroleum), hydrotreated light | Eye irritation (OECD 405), rabbit | Not irritating |
| Distillates (petroleum), hydrotreated heavy naphthenic | Eye irritation, rabbit | Not irritating |

Respiratory or skin sensitisation:

Nickel: May cause sensitisation by skin contact.

| Substance | Test | Result |
|--|--------------------------------------|-------------------------------|
| Naphtha (petroleum), hydrotreated light | Skin sensitization, guinea pig | Not sensitizing |
| Distillates (petroleum), hydrotreated heavy naphthenic | Skin sensitization (OECD 406) | Not sensitizing |
| Aluminum | Skin sensitization, guinea pig | Not sensitizing (read-across) |
| Graphite | Skin sensitization (OECD 429), mouse | Not sensitizing |
| Methanol | Skin sensitization, guinea pig | Not sensitizing |

Germ cell mutagenicity: Hazardous ingredients: based on available data, the classification criteria are not met.

Carcinogenicity: The National Toxicology Program (NTP) has listed Nickel powder as a potential carcinogen based on inhalation studies. The International Agency for Research on Cancer (IARC) has designated Nickel as possibly carcinogenic to humans (group 2B). The Nickel in this product is not in powder form and should not present a hazard in normal use. The U.S. National Institute for Occupational Safety and Health (NIOSH) concluded that there is no evidence that nickel metal is carcinogenic when ingested. To date, there is no evidence that nickel metal causes cancer in humans based on epidemiology data from workers in the nickel producing and nickel consuming industries. A recent animal (rat) inhalation study showed no increased respiratory cancer risk for nickel metal powder indicating that no carcinogen classification is warranted for nickel metal.

Reproductive toxicity: Naphtha (petroleum), hydrotreated light, Distillates (petroleum), hydrotreated heavy naphthenic, Nickel, Aluminum, Graphite, Methanol: based on available data, the classification criteria are not met.

STOT – single exposure: Naphtha (petroleum), hydrotreated light: Causes damage to lungs through prolonged or repeated inhalation exposure. Other ingredients: based on available data, the classification criteria are not met.

STOT – repeated exposure: Nickel: Causes damage to lungs through prolonged or repeated inhalation exposure. Other ingredients: based on available data, the classification criteria are not met.

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

11.2. Information on other hazards

None

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

12.1. Toxicity

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

12.2. Persistence and degradability

Naphtha (petroleum), hydrotreated light: inherently biodegradable. Naphtha (petroleum), hydrotreated light, Petroleum gases, liquefied, sweetened: oxidize by photochemical reactions in air. Distillates (petroleum), hydrotreated heavy naphthenic: inherently biodegradable [31% biodegradation (OECD 301F, 28 days)]. Nickel, Aluminum, Graphite: inorganic substances.

12.3. Bioaccumulative potential

Naphtha (petroleum), hydrotreated light, Octanol/water partition coefficient (log Kow): 2.1 – 5 (estimated). Propane, Butane, Distillates (petroleum), hydrotreated heavy naphthenic, Nickel, Aluminum, Graphite: not expected to bioaccumulate. Methanol: low potential for bioaccumulation (BCF < 100).

12.4. Mobility in soil

Liquid. Insoluble in water. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9). Low boiling point naphtha, Petroleum gases, liquefied, sweetened: will rapidly evaporate to the air if released into the environment.

12.5. Results of PBT and vPvB assessment

Not available

12.6. Endocrine disrupting properties

No information available

12.7. Other adverse effects

None known

SECTION 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**

Incinerate absorbed material with a properly licensed facility. Incinerate pressurized or sealed containers in an approved facility. Treatment for nickel may need to be provided after incineration and prior to any land disposal. This product is classified as a hazardous waste according to 2008/98/EC. Check local, state and national/federal regulations and comply with the most stringent requirement.

SECTION 14: TRANSPORT INFORMATION**14.1. UN number or ID number**

| | |
|-----------------------------------|--------|
| ADG/ADR/RID/ADN/IMDG/ICAO: | UN1950 |
| TDG: | UN1950 |
| US DOT: | UN1950 |

14.2. UN proper shipping name

| | |
|---------------------|----------------------------|
| ICAO: | Aerosols, Flammable |
| ADG/IMDG: | Aerosols |
| ADR/RID/ADN: | Aerosols, <i>flammable</i> |
| TDG: | Aerosols, <i>flammable</i> |
| US DOT: | Aerosols, <i>flammable</i> |

14.3. Transport hazard class(es)

| | |
|-----------------------------------|-----|
| ADG/ADR/RID/ADN/IMDG/ICAO: | 2.1 |
| TDG: | 2.1 |
| US DOT: | 2.1 |

14.4. Packing group

| | |
|-----------------------------------|----------------|
| ADG/ADR/RID/ADN/IMDG/ICAO: | NOT APPLICABLE |
| TDG: | NOT APPLICABLE |
| US DOT: | NOT APPLICABLE |

14.5. Environmental hazards

NO ENVIRONMENTAL HAZARDS

14.6. Special precautions for user

NO SPECIAL PRECAUTIONS FOR USER

14.7. Maritime transport in bulk according to IMO instruments

NOT APPLICABLE

14.8. Other information

US DOT: Shipped as Limited Quantity in packaging having a rated capacity gross weight of 66 lb. or less (49 CFR 173.306(a),(3),(i)).
ERG NO. 126

IMDG: EmS. F-D, S-U, Shipped as Limited Quantity

ADR: Classification code 5F, Tunnel restriction code (E), Shipped as Limited Quantity

ADG HAZCHEM CODE: N/A **HIN:** (1)

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU regulations**

Authorisations under Title VII: Not applicable

Restrictions under Title VIII: None

Other EU regulations: Directive 92/85/EEC on the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding
Directive 94/33/EC on the protection of young people at work.
Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances (hazard category P3a, Flammable Aerosols; qualifying quantities: 150 t (net), 500 t (net)).

15.1.2. National regulations**US EPA SARA TITLE III****312 Hazards:****Chemicals subject to reporting requirements of Section 313 of EPCRA and of 40 CFR 372:**

| | | | |
|--|----------|-----------|-------|
| Flammable aerosol | Nickel | 7440-02-0 | 7-13% |
| Gases under pressure | Aluminum | 7429-90-5 | 1-5% |
| Skin irritation | | | |
| Skin sensitization | | | |
| Specific target organ toxicity – single exposure | | | |
| Carcinogenicity | | | |
| Specific target organ toxicity – repeated exposure | | | |

TSCA: All chemical components are listed in the TSCA inventory.

Other national regulations: National implementations of the EC Directives referred to in section 15.1.1.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

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|--|---|
| Abbreviations and acronyms: | <p>ADG: Australian Dangerous Goods Code ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road ATE: Acute Toxicity Estimate BCF: Bioconcentration Factor cATpE: Converted Acute Toxicity point Estimate CLP: Classification Labelling Packaging Regulation (1272/2008/EC) ES: Exposure Standard GHS: Globally Harmonized System ICAO: International Civil Aviation Organization IMDG: International Maritime Dangerous Goods LC50: Lethal Concentration to 50 % of a test population LD50: Lethal Dose to 50% of a test population LOEL: Lowest Observed Effect Level N/A: Not Applicable NA: Not Available NOEC: No Observed Effect Concentration NOEL: No Observed Effect Level OECD: Organization for Economic Co-operation and Development PBT: Persistent, Bioaccumulative and Toxic substance (Q)SAR: Quantitative Structure-Activity Relationship REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC) REL: Recommended Exposure Limit RID: Regulations concerning the International Carriage of Dangerous Goods by Rail SCL: Specific Concentration Limit SDS: Safety Data Sheet STEL: Short Term Exposure Limit STOT RE: Specific Target Organ Toxicity, Repeated Exposure STOT SE: Specific Target Organ Toxicity, Single Exposure TDG: Transportation of Dangerous Goods (Canada) TWA: Time Weighted Average US DOT: United States Department of Transportation vPvB: very Persistent and very Bioaccumulative substance WEL: Workplace Exposure Limit WHMIS: Workplace Hazardous Materials Information System Other abbreviations and acronyms can be looked up at www.wikipedia.org.</p> |
| Key literature references and sources for data: | <p>Commission des normes, de l'équité, de la santé et de la sécurité du travail (CNESST) Chemical Classification and Information Database (CCID) European Chemicals Agency (ECHA) - Information on Chemicals Hazardous Chemical Information System (HCIS) National Institute of Technology and Evaluation (NITE) Swedish Chemicals Agency (KEMI) U.S. National Library of Medicine Toxicology Data Network (TOXNET)</p> |

Procedure used to derive the classification for mixtures according to Regulation (EC) No 1272/2008 [CLP] / GHS:

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Aerosol 1, H222 | On basis of components |
| Skin Irrit. 2, H315 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| STOT SE 3, H336 | Calculation method |
| Carc. 2, H351 | Calculation method |
| STOT RE 1, H372 | Calculation method |
| Aquatic Chronic 1, H410 | Calculation method |

Relevant H-statements:

- H220: Extremely flammable gas.
- H225: Highly flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H301: Toxic if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H311: Toxic in contact with skin.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H331: Toxic if inhaled.
- H336: May cause drowsiness or dizziness.
- H351: Suspected of causing cancer.
- H370: Causes damage to organs.
- H372: Causes 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.

Hazard pictogram names: Flame, exclamation mark, health hazard, environment

Further information: None

Date of last revision: 5 December 2023

Changes to the SDS in this revision: Section 1.1.

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose. The user must make their own determination as to suitability.