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SECTION 1: Identification

1.1 Product identifier

Trade name

Alternative number(s)

Eagle One NEVR-DULL All Metal Wadding Polish

079933103553

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

Relevant identified uses

Polishing agent

1.3 Details of the supplier of the safety data sheet

Energizer Manufacturing, Inc. 25225 Detroit Rd. Westlake OH 44145 United States

Telephone: 800-383-7323; 314-985-2000 (USA / CANADA) Website: http://data.energizer.com

Energizer Trading Ltd. Sword House, Totteridge Road, High Wycombe, HP13 6DG, UK

Telephone: +44(0)8000353376 e-mail: ConsumerServiceEU@energizer.com

1.4 Emergency telephone number

Emergency information service

1-314-985-1511 Int'l: 1-800-526-4727 This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class | Category | Hazard class and category | Hazard state- ment |
|---------|---|----------|---------------------------|-----------------------|
| 2.7 | flammable solid | 2 | Flam. Sol. 2 | H228 |
| 3.1I | acute toxicity (inhal.) | 4 | Acute Tox. 4 | H332 |
| 3.2 | skin corrosion/irritation | 2 | Skin Irrit. 2 | H315 |
| 3.3 | serious eye damage/eye irritation | 2 | Eye Irrit. 2 | H319 |
| 3.8D | specific target organ toxicity - single exposure (narcotic effects, drowsiness) | 3 | STOT SE 3 | H336 |
| 3.9 | specific target organ toxicity - repeated exposure | 2 | STOT RE 2 | H373 |



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For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects Delayed or immediate effects can be expected after short or long-term exposure.

2.2 **Label elements**

Labeling

- Signal word warning
- Pictograms
- GHS02, GHS07, GHS08



| Hazard statements | |
|----------------------|--|
| H228 | Flammable solid. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs (nervous system) through prolonged or repeated exposure. |
| Precautionary statem | nents |
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P240 | Ground and bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting equipment. |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P321 | Specific treatment (see on this label). |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P370+P378 | In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P405 | Store locked up. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regula- tions. |

2.2.1.7 - Hazardous ingredients for labelling

Distillates (petroleum), hydrotreated light, Solvent naphtha (petroleum), light arom.



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2.3 Other hazards

This material is combustible, but will not ignite readily.

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|--|----------------------|-----------|--|------------|
| Distillates (petroleum), hy- drotreated light | CAS No 64742-47-8 | 50 - < 75 | Flam. Liq. 3 / H226 Acute Tox. 3 / H331 STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 | |
| Naphtha (petroleum), hy- drotreated heavy | CAS No 64742-48-9 | 25 - < 50 | Flam. Liq. 1 / H224 Asp. Tox. 1 / H304 | |
| Solvent naphtha (petro- leum), light arom. | CAS No 64742-95-6 | 5 - < 10 | Flam. Liq. 1 / H224 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 | |
| Ammonia, aqueous solu- tion | CAS No 1336-21-6 | 1-<5 | Skin Corr. 1 / H314 Eye Dam. 1 / H318 STOT SE 3 / H335 | |

For full text of abbreviations: see SECTION 16.

SECTION 4: First-aid measures

4.1 Description of first- aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.



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Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Narcotic effects.

4.3 Indication of any immediate medical attention and special treatment needed none

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Water, Foam, ABC-powder

Unsuitable extinguishing media Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Coordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.



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6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains, Take up mechanically

Advice on how to clean up a spill

Take up mechanically.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas. Ground/bond container and receiving equipment.

- Specific notes/details

Dust deposits may accumulate on all deposition surfaces in a technical room. The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

- Explosive atmospheres

Removal of dust deposits.

- Flammability hazards

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

- Ventilation requirements

Keep any substance that emits harmful vapors or gases in a place that allows these to be permanently extracted.

- Packaging compatibilities

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.



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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| Occupational exposure limit values (Workplace Exposure Limits) | | | | | | | | | | | |
|--|---------------|----------------|-----------------|--------------|--------------------|---------------|---------------------|-------------------------|-------------------------------|------------------------|-------------------------|
| Coun try | Name of agent | CAS No | Iden- tifier | TWA [ppm] | TWA [mg/ m³] | STEL [ppm] | STEL [mg/ m³] | Ceil- ing-C [ppm] | Ceil- ing-C [mg/ m³] | Nota tion | Sourc e |
| CA | Jet fuels | 64742- 47-8 | OEL (BC) | | 200 | | | | | Hy- Carb, i, vap | "BC Regu- lation" |

Notation

| Notation | |
|-----------|---|
| Ceiling-C | ceiling value is a limit value above which exposure should not occur |
| HyCarb | calculated as hydrocarbons |
| i | inhalable fraction |
| STEL | short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified) |
| TWA | time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time- weighted average (unless otherwise specified |
| vap | as vapors |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear protective gloves.

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| Physical state | solid |
|----------------|------------------|
| Color | silver |
| Odor | mineral-oil-like |

Other safety parameters

| pH (value) | 3 |
|---|---|
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | ≥-20 °C at 101.3 kPa |
| Flash point | 90 °C |
| Evaporation rate | not determined |
| Flammability (solid, gas) | flammable solid in accordance with GHS criteria |
| Vapor pressure | ≤240 kPa at 37.8 °C |
| Density | not determined |
| Vapor density | this information is not available |
| Relative density | information on this property is not available |
| Solubility(ies) | not determined |

Partition coefficient

| - n-octanol/water (log KOW) | this information is not available |
|-----------------------------|--|
| Auto-ignition temperature | 220 °C (relative self-ignition temperature for solids) |
| Viscosity | not relevant (solid matter) |
| Explosive properties | not explosive (GHS of the United Nations, annex 4) |



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| Oxidizing properties | none |
|----------------------|------|
| Other information | |

9.2 Other information

Temperature class (USA, acc. to NEC 500)

T2D (maximum permissible surface temperature on the equipment: $215^{\circ}C$)

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.

If heated:

Risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints to prevent fire or explosion

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

10.5 Incompatible materials

Oxidizers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Harmful if inhaled.



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GHS of the United Nations, annex 4: May be harmful in contact with skin.

- Acute toxicity estimate (ATE) Inhalation: vapour 10.56 ^{mg}/₁/4h

| Acute toxicity estimate (ATE) of components of the mixture | | | | | | |
|--|------------|--------------------|---------------------------------------|--|--|--|
| Name of substance CAS No Exposure route ATE | | | | | | |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | inhalation: vapour | 5.28 ^{mg} / _l /4h | | | |

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

May cause damage to organs (nervous system) through prolonged or repeated exposure.

| Hazard category | Target organ | Exposure route |
|-----------------|----------------|----------------|
| 2 | nervous system | if exposed |

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.



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SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life with long lasting effects.

| Aquatic toxicity (acute) of components of the mixture | | | | | | | | | |
|---|------------|----------|-------------------------------------|--|------------------|--|--|--|--|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time | | | | |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | LL50 | 5 ^{mg} / _l | fish | 96 h | | | | |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | EL50 | 1.4 ^{mg} / _l | aquatic invertebrates | 48 h | | | | |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | LC50 | >1,000 ^{mg} / _l | rainbow trout (Onco- rhynchus mykiss) | 96 h | | | | |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | LC50 | >1,000 ^{mg} / _l | goldfish (Carassius auratus) | 72 h | | | | |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | EC50 | >1,000 ^{mg} / _l | water flea (Daphnia) | 48 h | | | | |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | EC50 | >1,000 ^{mg} / _l | algae | 72 h | | | | |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | LL50 | 8.2 ^{mg} / _l | fish | 96 h | | | | |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | EL50 | 4.5 ^{mg} / _l | aquatic invertebrates | 48 h | | | | |
| Solvent naphtha (petro- leum), light arom. | 64742-95-6 | LL50 | 8.2 ^{mg} / _l | fish | 96 h | | | | |
| Solvent naphtha (petro- leum), light arom. | 64742-95-6 | EL50 | 4.5 ^{mg} / _l | aquatic invertebrates | 48 h | | | | |

| Aquatic toxicity (chronic) of components of the mixture | | | | | | |
|---|------------|----------|------------------------------------|-----------------------|------------------|--|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time | |
| Distillates (petroleum), hydrotreated light | 64742-47-8 | EL50 | 0.89 ^{mg} / _l | aquatic invertebrates | 21 d | |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | EL50 | 10 ^{mg} / _l | fish | 21 d | |
| Naphtha (petroleum), hydrotreated heavy | 64742-48-9 | EC50 | 15.41 ^{mg} / _l | microorganisms | 40 h | |



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| Aquatic toxicity (chronic) of components of the mixture | | | | | |
|---|------------|----------|------------------------------------|----------------|------------------|
| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
| Solvent naphtha (petro- leum), light arom. | 64742-95-6 | EL50 | 10 ^{mg} / _l | fish | 21 d |
| Solvent naphtha (petro- leum), light arom. | 64742-95-6 | EC50 | 15.41 ^{mg} / _l | microorganisms | 40 h |

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packages

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.



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| керіас | es version of. 2020-00-09 (2) | |
|--------|---|---|
| SECT | TON 14: Transport information | |
| 14.1 | UN number | 1325 |
| 14.2 | UN proper shipping name | FLAMMABLE SOLID, ORGANIC, N.O.S. |
| | Technical name (hazardous ingredients) | Solvent naphtha (petroleum), light arom., Naphtha (petroleum), hydrotreated heavy |
| 4.3 | Transport hazard class(es) | |
| | Class | 4.1 (flammable solids, self-reactive substances and solid desensitized explosives) |
| 4.4 | Packing group | III (substance presenting low danger) |
| 14.5 | Environmental hazards | hazardous to the aquatic environment |
| | Environmentally hazardous substance (aquatic environment) | Distillates (petroleum), hydrotreated light |
| 14.6 | Special precautions for user There is no additional information. | |
| 14.7 | Transport in bulk according to Annex II of MAR The cargo is not intended to be carried in bulk. Information for each of the UN Model Regulation | |
| | Transport information - National regulations - A | Additional information (UN RTDG) |
| | UN number | 1325 |
| | Proper shipping name | FLAMMABLE SOLID, ORGANIC, N.O.S. |
| | Class | 4.1 |
| | Environmental hazards | Yes (hazardous to the aquatic environment) |
| | Packing group | III |
| | Danger label(s) | 4.1, fish and tree |
| | | |
| | Special provisions (SP) | 223, 274 (UN RTDG) |
| | Excepted quantities (EQ) | E1 (UN RTDG) |
| | Limited quantities (LQ) | 5 kg (un rtdg) |
| | | |



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| International Maritime Dangerous Goods Co | de (IMDG) |
|--|---|
| UN number | 1325 |
| Proper shipping name | FLAMMABLE SOLID, ORGANIC, N.O.S. |
| - Particulars in the shipper's declaration | UN1325, FLAMMABLE SOLID, ORGANIC, N.O.S., (Solvent naphtha (petroleum), light arom., Naph- tha (petroleum), hydrotreated heavy, Distillates (petroleum), hydrotreated light, mixture), 4.1, III, MARINE POLLUTANT |
| Class | 4.1 |
| Marine pollutant | Yes (hazardous to the aquatic environment) |
| Packing group | III |
| Danger label(s) | 4.1, fish and tree |
| | |
| Special provisions (SP) | 223, 274 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 5 kg |
| EmS | F-A, S-G |
| Stowage category | В |
| International Civil Aviation Organization (ICA | AO-IATA/DGR) |
| UN number | 1325 |
| Proper shipping name | Flammable solid, organic, n.o.s. |
| - Particulars in the shipper's declaration | UN1325, Flammable solid, organic, n.o.s., (Solver naphtha (petroleum), light arom., Naphtha (petro leum), hydrotreated heavy, mixture), 4.1, III |
| Class | 4.1 |
| Environmental hazards | Yes (hazardous to the aquatic environment) |
| Packing group | III |
| Danger label(s) | 4.1 |
| | |
| Special provisions (SP) | A3 |
| Excepted quantities (EQ) | E1 |
| Limited quantities (LQ) | 10 kg |



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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

National regulations (United States)

Toxic Substance Control Act (TSCA)all ingredients are listed

Superfund Amendment and Reauthorization Act (SARA TITLE III)

- The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)

none of the ingredients are listed

- Specific Toxic Chemical Listings (EPCRA Section 313)

none of the ingredients are listed

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

- List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

| Name of substance | CAS No | Remarks | Statutory code | Final RQ pounds (Kg) |
|---------------------------|-----------|---------|-------------------|----------------------|
| Ammonia, aqueous solution | 1336-21-6 | | 1 | 1000 (454) |

Legend

"1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act

Clean Air Act

none of the ingredients are listed

Right to Know Hazardous Substance List

- Cleaning Product Right to Know Act Substance List (CA-RTK)

| Name of substance | Name acc. to inventory | CAS No | Functional- ity | Authoritative Lists |
|--|--|------------|--------------------|--|
| Distillates (petroleum), hydro- treated light | | 64742-47-8 | solvents | |
| Naphtha (petroleum), hydro- treated heavy | Naphtha (petroleum), hydro- treated heavy | 64742-48-9 | solvents | Canada PBiTs EC Annex VI CMRs - Cat. 1B |
| Solvent naphtha (petroleum), light arom. | Solvent naphtha (petroleum), light arom. | 64742-95-6 | solvents | EC Annex VI CMRs - Cat. 1B |

- Toxic or Hazardous Substance List (MA-TURA)



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| Name of substance | Name acc. to inventory | CAS No | DEP CODE | PBT / HHS / LHS | PBT / HHS Thres hold | De Minimis Concentra- tion Threshold |
|---------------------------|------------------------|-----------|-------------|-----------------------|-------------------------------|---|
| Ammonia, aqueous solution | Ammonium hydroxide | 1336-21-6 | | | | 1.0 % |
| Ammonia, aqueous solution | Ammonia | 7664-41-7 | | | | 1.0 % |

- Hazardous Substances List (MN-ERTK)

| Name of substance | Name acc. to inventory | CAS No | References | Remarks |
|--|--------------------------|------------|------------|---------|
| Naphtha (petroleum), hydro- treated heavy | Naphtha (Rubber Solvent) | 64742-48-9 | Α, Ο | |

Legend

A

American Conference of Governmental Industrial Hygienists (ACGIH), "Threshold Limit Values for Chemical Substances and Physic-al Agents and Biological Exposure Indices for 1992-93", available from ACGIH Occupational Safety and Health Administration (OSHA), Safety and Health Standards, Code of Federal Regulations, title 29, part 1910, subpart Z, "Toxic and Hazardous Substances, 1990." General information: Minnesota Department of Labor and Industry, Oc-rupational Safety and Health Physician 0 cupational Safety and Health Division

- Hazardous Substance List (NJ-RTK)

| Name of substance | Name acc. to inventory | CAS No | Remarks | Classifications |
|---------------------------|------------------------|-----------|---------|-----------------|
| Ammonia, aqueous solution | ammonium hydroxide | 1336-21-6 | | СО |

Legend

 $\overline{0}$ Corrosive

Hazardous Substance List (Chapter 323) (PA-RTK)

| Name of substance | Name acc. to inventory | CAS No | Classification |
|---------------------------|-----------------------------------|-----------|----------------|
| Ammonia, aqueous solution | AMMONIUM HYDROXIDE ((NH4)(OH)) | 1336-21-6 | E |

Legend

Environmental hazard F

- Hazardous Substance List (RI-RTK)

none of the ingredients are listed

California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and **Toxic Enforcement Act of 1987**

none of the ingredients are listed

Industry or sector specific available guidance(s)



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NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.

| Category | Rating | Description |
|---------------------|--------|---|
| Chronic | * | chronic (long-term) health effects may result from repeated overexposure |
| Health | 2 | temporary or minor injury may occur |
| Flammability | 3 | material that can be ignited under almost all ambient temperature conditions |
| Physical hazard | 0 | material that is normally stable, even under fire conditions, and will not react with wa- ter, polymerize, decompose, condense, or self-react. Non-explosive |
| Personal protection | - | |

NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

| Category | Degree of hazard | Description |
|----------------|---------------------|---|
| Flammability | 3 | material that can be ignited under almost all ambient temperature conditions |
| Health | 2 | material that, under emergency conditions, can cause temporary incapacitation or re- sidual injury |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |

National regulations (Canada)

Domestic Substances List (DSL)

All ingredients are listed.

National inventories

| Country | Inventory | Status |
|---------|------------|--------------------------------|
| AU | AICS | all ingredients are listed |
| CA | DSL | all ingredients are listed |
| CN | IECSC | all ingredients are listed |
| EU | ECSI | all ingredients are listed |
| EU | REACH Reg. | all ingredients are listed |
| JP | CSCL-ENCS | not all ingredients are listed |
| KR | KECI | all ingredients are listed |
| | | |



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| Country | Inventory | Status |
|---------|-----------|----------------------------|
| MX | INSQ | all ingredients are listed |
| NZ | NZIoC | all ingredients are listed |
| PH | PICCS | all ingredients are listed |
| TR | CICR | all ingredients are listed |
| TW | TCSI | all ingredients are listed |
| US | TSCA | all ingredients are listed |

| Legend | |
|------------|---|
| AICS | Australian Inventory of Chemical Substances |
| CICR | Chemical Inventory and Control Regulation |
| CSCL-ENCS | List of Existing and New Chemical Substances (CSCL-ENCS) |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC Substance Inventory (EINECS, ELINCS, NLP) |
| IECSC | Inventory of Existing Chemical Substances Produced or Imported in China |
| INSQ | National Inventory of Chemical Substances |
| KECI | Korea Existing Chemicals Inventory |
| NZIoC | New Zealand Inventory of Chemicals |
| PICCS | Philippine Inventory of Chemicals and Chemical Substances (PICCS) |
| REACH Reg. | REACH registered substances |
| TCSI | Taiwan Chemical Substance Inventory |
| TSCA | Toxic Substance Control Act |

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information, including date of preparation or last revision

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relev- ant |
|---------|--|---|--------------------------|
| 3.2 | | Description of the mixture: change in the listing (table) | yes |
| 4.1 | Following skin contact: Rinse skin with water/shower. | Following skin contact: Wash with plenty of soap and water. | yes |
| 5.2 | Special hazards arising from the substance or mixture: Deposited combustible dust has considerable ex- plosion potential. | Special hazards arising from the substance or mixture | yes |
| 7.1 | - Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Take precau- tionary measures against static discharge. Use only in well-ventilated areas. Ground/bond con- tainer and receiving equipment. | - Measures to prevent fire as well as aerosol and dust generation: Use local and general ventilation. Use only in well-ventilated areas. Ground/bond container and receiving equipment. | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety- relev- ant |
|---------|---|--|--------------------------|
| 7.2 | - Ventilation requirements: Keep any substance that emits harmful vapors or gases in a place that allows these to be perman- ently extracted. Use local and general ventilation. | - Ventilation requirements: Keep any substance that emits harmful vapors or gases in a place that allows these to be perman- ently extracted. | yes |
| 8.1 | | Occupational exposure limit values (Workplace Exposure Limits): change in the listing (table) | yes |
| 8.2 | Respiratory protection: Particulate filter device (EN 143). | Respiratory protection: In case of inadequate ventilation wear respirat- ory protection. | yes |
| 9.2 | Solvent content: 100 % | | yes |
| 9.2 | Solid content: 0 % | | yes |
| 15.1 | | Cleaning Product Right to Know Act Substance List (CA-RTK): change in the listing (table) | yes |
| 15.1 | | Toxic or Hazardous Substance List (MA-TURA): change in the listing (table) | yes |
| 15.1 | | Hazardous Substances List (MN-ERTK): change in the listing (table) | yes |
| 15.1 | | Hazardous Substance List (NJ-RTK): change in the listing (table) | yes |
| 15.1 | | Hazardous Substance List (Chapter 323) (PA-RTK): change in the listing (table) | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|-----------------|--|
| "BC Regulation" | OHS Regulation: Section 5.48 (British Columbia) |
| Acute Tox. | Acute toxicity |
| Asp. Tox. | Aspiration hazard |
| ATE | Acute Toxicity Estimate |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| DEP CODE | Department of Environmental Protection Code |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |



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| Abbr. | Descriptions of used abbreviations |
|----------------|--|
| DOT | Department of Transportation (USA) |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EL50 | Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| ННЅ | Higher hazard substance |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LHS | Lower hazard substance |
| LL50 | Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| NLP | No-Longer Polymer |
| NPCA-HMIS® III | National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition |
| PBT | Persistent, Bioaccumulative and Toxic |
| ppm | Parts per million |
| RTECS | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| STEL | Short-term exposure limit |



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| Abbr. | Descriptions of used abbreviations |
|---------|--|
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |
| TWA | Time-weighted average |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

Hazardous Products Regulations (HPR).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture. Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

| Code | Text |
|------|---|
| H224 | Extremely flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H228 | Flammable solid. |
| H304 | May be fatal if swallowed and enters airways. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373 | May cause damage to organs (nervous system) through prolonged or repeated exposure. |

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.