



Safety Data Sheet

acc. to Hazardous Products Regulations (HPR)

Armor All Car Wash - Bottle

Version number: 9.2
Replaces version of: 2023-06-06 (8)

Revision: 2023-09-11

1 Identification

1.1 Product identifier

Trade name **Armor All Car Wash - Bottle**
Alternative number(s) 070612254641, 067788251024, 070612250247,
067788251253, 067788251024, 067788251253

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

Relevant identified uses General use

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)
e-mail: Autocare.regulatory@energizer.com
Website: <http://data.energizer.com>

1.4 Emergency telephone number

Emergency information service FOR EMERGENCY in USA & Canada CALL +1 800
255-3924 / For International CALL +1 813 248 0585
This number is only available during the following
office hours: Mon-Fri 09:00 AM - 05:00 PM

2 Hazard identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|--|----------|---------------------------|------------------|
| 2.16 | substance or mixture corrosive to metals | 1 | Met. Corr. 1 | H290 |
| 3.3 | serious eye damage/eye irritation | 2A | Eye Irrit. 2A | H319 |

For full text of abbreviations: see SECTION 16.

2.2 Label elements

Labeling

- Signal word warning
- Pictograms

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GHS05



- Hazard statements

H290 May be corrosive to metals.
H319 Causes serious eye irritation.

- Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P234 Keep only in original packaging.
P280 Wear eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.
P390 Absorb spillage to prevent material damage.
P406 Store in a corrosion resistant container with a resistant inner liner.

- Hazardous ingredients for labelling Methylchloroisothiazolinone

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.



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 |
|---|----------------------|---------|--|---|
| Alkylbenzene Sulfonic Acid | CAS No 68584-22-5 | 1 - < 5 | Acute Tox. 4 / H302 Acute Tox. 4 / H332 |  |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | CAS No 68439-57-6 | 1 - < 5 | Skin Irrit. 2 / H315 Eye Dam. 1 / H318 |  |

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| Name of substance | Identifier | Wt% | Classification acc. to GHS | Pictograms |
|------------------------------|----------------------|-------|--|---|
| Methylchloroiso-thiazolinone | CAS No 55965-84-9 | < 0.1 | Acute Tox. 4 / H302 Acute Tox. 3 / H311 Acute Tox. 4 / H332 Skin Corr. 1C / H314 Eye Dam. 1 / H318 Skin Sens. 1A / H317 |  |

For full text of abbreviations: see SECTION 16.

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. Provide fresh air.

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

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

5 Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Substance or mixture corrosive to metals.



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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.

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.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

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.

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.



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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

- Corrosive conditions

Store in corrosive resistant container with a resistant inner liner.

Control of the effects

Protect against external exposure, such as
frost

7.3 Specific end use(s)

See section 16 for a general overview.

8 Exposure controls/ Personal protection

8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)
this information is not available

| Relevant DNELs of components of the mixture | | | | | | |
|---|------------|-----------|-------------------------|------------------------------------|-------------------|----------------------------|
| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
| Alkylbenzene Sulfonic Acid | 68584-22-5 | DNEL | 0.66 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Alkylbenzene Sulfonic Acid | 68584-22-5 | DNEL | 3.33 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 68439-57-6 | DNEL | 152.2 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 68439-57-6 | DNEL | 2,158 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Methylchloroisothiazolinone | 55965-84-9 | DNEL | 0.02 mg/m ³ | human, inhalatory | worker (industry) | chronic - local effects |
| Methylchloroisothiazolinone | 55965-84-9 | DNEL | 0.04 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |



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Relevant PNECs of components of the mixture

| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|---|------------|-----------|-------------------|-----------------------|------------------------------|------------------------------|
| Alkylbenzene Sulfonic Acid | 68584-22-5 | PNEC | 1 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Alkylbenzene Sulfonic Acid | 68584-22-5 | PNEC | 1 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Alkylbenzene Sulfonic Acid | 68584-22-5 | PNEC | 100 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Alkylbenzene Sulfonic Acid | 68584-22-5 | PNEC | 723,500,000 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Alkylbenzene Sulfonic Acid | 68584-22-5 | PNEC | 723,500,000 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Alkylbenzene Sulfonic Acid | 68584-22-5 | PNEC | 868,700,000 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 68439-57-6 | PNEC | 0.024 mg/l | aquatic organisms | freshwater | short-term (single instance) |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 68439-57-6 | PNEC | 0.002 mg/l | aquatic organisms | marine water | short-term (single instance) |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 68439-57-6 | PNEC | 4 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 68439-57-6 | PNEC | 0.767 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 68439-57-6 | PNEC | 0.077 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 68439-57-6 | PNEC | 1.21 mg/kg | terrestrial organisms | soil | short-term (single instance) |
| Methylchloroisothiazolinone | 55965-84-9 | PNEC | 3.39 µg/l | aquatic organisms | freshwater | short-term (single instance) |
| Methylchloroisothiazolinone | 55965-84-9 | PNEC | 3.39 µg/l | aquatic organisms | marine water | short-term (single instance) |



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Relevant PNECs of components of the mixture

| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|------------------------------|------------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Methylchloroiso-thiazolinone | 55965-84-9 | PNEC | 0.23 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| Methylchloroiso-thiazolinone | 55965-84-9 | PNEC | 0.027 mg/kg | aquatic organisms | freshwater sediment | short-term (single instance) |
| Methylchloroiso-thiazolinone | 55965-84-9 | PNEC | 0.027 mg/kg | aquatic organisms | marine sediment | short-term (single instance) |
| Methylchloroiso-thiazolinone | 55965-84-9 | PNEC | 0.01 mg/kg | terrestrial organisms | soil | short-term (single instance) |

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 suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- 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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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|--|---|
| Physical state | liquid |
| Color | not determined |
| Odor | characteristic |
| Melting point/freezing point | not determined |
| Boiling point or initial boiling point and boiling range | 100 °C |
| Flammability | this material is combustible, but will not ignite readily |
| Lower and upper explosion limit | not determined |
| Flash point | not determined |
| Auto-ignition temperature | not determined |
| Decomposition temperature | not relevant |
| pH (value) | not determined |
| Kinematic viscosity | not determined |
| Solubility(ies) | not determined |

Partition coefficient

| | |
|---|-----------------------------------|
| Partition coefficient n-octanol/water (log value) | this information is not available |
|---|-----------------------------------|

| | |
|----------------|---------------|
| Vapor pressure | 0 Pa at 25 °C |
|----------------|---------------|

Density and/or relative density



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| | |
|-------------------------|---|
| Density | not determined |
| Relative vapour density | information on this property is not available |

| | |
|--------------------------|-----------------------|
| Particle characteristics | not relevant (liquid) |
|--------------------------|-----------------------|

9.2 Other information

| | |
|--|------------------------------------|
| Information with regard to physical hazard classes | there is no additional information |
| Other safety characteristics | there is no additional information |

10 Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". Substance or mixture corrosive to metals.

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

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.

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



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Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture

| Name of substance | CAS No | Exposure route | ATE |
|-----------------------------|------------|-----------------------|--------------|
| Alkylbenzene Sulfonic Acid | 68584-22-5 | oral | 1,470 mg/kg |
| Alkylbenzene Sulfonic Acid | 68584-22-5 | inhalation: vapour | 11 mg/l/4h |
| Alkylbenzene Sulfonic Acid | 68584-22-5 | inhalation: dust/mist | >1.9 mg/l/4h |
| Methylchloroisothiazolinone | 55965-84-9 | oral | 457 mg/kg |
| Methylchloroisothiazolinone | 55965-84-9 | dermal | 660 mg/kg |
| Methylchloroisothiazolinone | 55965-84-9 | inhalation: vapour | 11 mg/l/4h |
| Methylchloroisothiazolinone | 55965-84-9 | inhalation: dust/mist | 2.36 mg/l/4h |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.



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12 Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

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

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of $\geq 0.1\%$.

12.7 Other adverse effects

Data are not available.

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

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.

14 Transport information

| | |
|---------------------------------|--------------------------------------|
| 14.1 UN number | not subject to transport regulations |
| 14.2 UN proper shipping name | not relevant |
| 14.3 Transport hazard class(es) | none |
| 14.4 Packing group | not assigned |



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- 14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations
- 14.6 Special precautions for user**
There is no additional information.
- 14.7 Transport in bulk according to IMO instruments**
The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

DOT

Transport information - National regulations - Additional information (UN RTDG)

Not subject to transport regulations: UN RTDG

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA.

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) not all ingredients are listed (ACTIVE)

Right to Know Hazardous Substance List

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

| Name of substance | CAS No | Functionality | Authoritative Lists |
|---|------------|----------------|---------------------|
| Water | 7732-18-5 | solvents | |
| Alkylbenzene Sulfonic Acid | 68584-22-5 | surfactant | |
| Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts | 68439-57-6 | cleaning agent | |
| Sodium Lauryl Ether Sulfate | 68585-34-2 | surfactant | |
| Hydroxyethyl cellulose | 9004-62-0 | thickener | |
| Sodium hydroxide | 1310-73-2 | pH Adjuster | OEHHA RELS |
| Sodium sulfate | 7757-82-6 | filler | |
| Salt | 7647-14-5 | preservative | |



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| Name of substance | CAS No | Functionality | Authoritative Lists |
|--|--------------|---------------------|---|
| Sodium xylenesulphonate | 1300-72-7 | surfactant | |
| Alkenes, C>10 alpha | 64743-02-8 | surfactant | |
| Sulfuric Acid | 7664-93-9 | pH Adjuster | IARC Carcinogens - 1 NTP 13th RoC - known OEHHA RELs Prop 65 |
| C10-16 Alcohol Ethoxylate | 68002-97-1 | surfactant | |
| Non-hazardous ingredients | Mixture | miscellaneous | |
| Benzene derivatives | Trade secret | surfactant | |
| 1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione | 6440-58-0 | antimicrobial agent | Nonfunctional constituents |
| Polyoxyalkylene Substituted Chromophore (Blue) | | colorant | |

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

| Proposition 65 List of chemicals | | | |
|----------------------------------|-----------|---------|----------------------|
| Name acc. to inventory | CAS No | Remarks | Type of the toxicity |
| 1,4-dioxane | 123-91-1 | | cancer |
| benzene | 71-43-2 | | cancer |
| benzene | 71-43-2 | | developmental, male |
| sulfur dioxide | 7446-09-5 | | developmental |
| ethylbenzene | 100-41-4 | | cancer |
| cumene | 98-82-8 | | cancer |
| beta-Myrcene | 123-35-3 | | cancer |
| formaldehyde | 50-00-0 | gas | cancer |
| methanol | 67-56-1 | | developmental |
| toluene | 108-88-3 | | developmental |

Industry or sector specific available guidance(s)

NPCA-HMIS® III

Hazardous Materials Identification System. American Coatings Association.



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| Category | Rating | Description |
|---------------------|--------|--|
| Chronic | * | chronic (long-term) health effects may result from repeated overexposure |
| Health | 2 | temporary or minor injury may occur |
| Flammability | 1 | material that must be preheated before ignition can occur |
| Physical hazard | 0 | material that is normally stable, even under fire conditions, and will not react with water, 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 | 1 | material that must be preheated before ignition can occur |
| Health | 0 | material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material |
| Instability | 0 | material that is normally stable, even under fire conditions |
| Special hazard | | |

National inventories

| Country | Inventory | Status |
|---------|------------|--------------------------------|
| AU | AIIC | not all ingredients are listed |
| CA | DSL | not all ingredients are listed |
| CA | NDSL | not all ingredients are listed |
| CN | IECSC | not all ingredients are listed |
| EU | ECSI | not all ingredients are listed |
| EU | REACH Reg. | not all ingredients are listed |
| JP | CSCL-ENCS | not all ingredients are listed |
| JP | ISHA-ENCS | not all ingredients are listed |
| KR | KECI | not all ingredients are listed |
| MX | INSQ | not all ingredients are listed |
| NZ | NZIoC | not all ingredients are listed |
| PH | PICCS | not all ingredients are listed |



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| Country | Inventory | Status |
|---------|-----------|--------------------------------|
| TR | CICR | not all ingredients are listed |
| TW | TCSI | not all ingredients are listed |
| US | TSCA | not all ingredients are listed |
| VN | NCI | not all ingredients are listed |

Legend

| | |
|------------|---|
| AIIC | Australian Inventory of Industrial Chemicals |
| 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 |
| ISHA-ENCS | Inventory of Existing and New Chemical Substances (ISHA-ENCS) |
| KECI | Korea Existing Chemicals Inventory |
| NCI | National Chemical Inventory |
| NDSL | Non-domestic Substances List (NDSL) |
| 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.

16 Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|--|-----------------|
| 2.1 | Classification acc. to GHS: This mixture does not meet the criteria for classification. | Classification acc. to GHS | yes |
| 2.1 | | Classification acc. to GHS: change in the listing (table) | yes |
| 2.2 | Labeling: not required | Labeling | yes |
| 2.2 | | - Signal word: warning | yes |
| 2.2 | | - Pictograms | yes |
| 2.2 | | - Pictograms: change in the listing (table) | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|---|-----------------|
| 2.2 | | - Hazard statements: change in the listing (table) | yes |
| 2.2 | | - Precautionary statements: change in the listing (table) | yes |
| 3.2 | | Description of the mixture: change in the listing (table) | yes |
| 5.2 | Special hazards arising from the substance or mixture | Special hazards arising from the substance or mixture: Substance or mixture corrosive to metals. | yes |
| 7.2 | | Managing of associated risks | yes |
| 7.2 | | - Corrosive conditions: Store in corrosive resistant container with a resistant inner liner. | yes |
| 9.1 | Appearance | | yes |
| 9.1 | Other safety parameters | | yes |
| 9.1 | Flammability (solid, gas): not relevant, (fluid) | Flammability: this material is combustible, but will not ignite readily | yes |
| 9.1 | | Lower and upper explosion limit: not determined | yes |
| 9.1 | Evaporation rate: Not determined | | yes |
| 9.1 | Auto-ignition temperature | Auto-ignition temperature: not determined | yes |
| 9.1 | | Decomposition temperature: not relevant | yes |
| 9.1 | | Kinematic viscosity: not determined | yes |
| 9.1 | | Density and/or relative density | yes |
| 9.1 | Vapor density: this information is not available | | yes |
| 9.1 | Viscosity: not determined | | yes |
| 9.1 | Explosive properties: not explosive (GHS of the United Nations, annex 4) | | yes |



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| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|---|-----------------|
| 9.1 | Oxidizing properties: none | | yes |
| 9.2 | other information: there is no additional information | Other information | yes |
| 9.2 | | Information with regard to physical hazard classes: there is no additional information | yes |
| 9.2 | | Other safety characteristics: there is no additional information | yes |
| 10.1 | Reactivity: Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". | Reactivity: Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". Substance or mixture corrosive to metals. | yes |
| 10.2 | Chemical stability: The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. | Chemical stability: See below "Conditions to avoid". | yes |
| 11.1 | Classification acc. to GHS: This mixture does not meet the criteria for classification. | Classification acc. to GHS | yes |
| 11.1 | Serious eye damage/eye irritation: Shall not be classified as seriously damaging to the eye or eye irritant. | Serious eye damage/eye irritation: Causes serious eye irritation. | yes |
| 15.1 | | Toxic Substance Control Act (TSCA): not all ingredients are listed (ACTIVE) | yes |
| 15.1 | | NPCA-HMIS® III: change in the listing (table) | yes |
| 15.1 | | National inventories: change in the listing (table) | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|------------|--|
| Acute Tox. | Acute toxicity |
| ATE | Acute Toxicity Estimate |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DNEL | Derived No-Effect Level |



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| Abbr. | Descriptions of used abbreviations |
|----------------|---|
| DOT | Department of Transportation (USA) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| Eye Dam. | Seriously damaging to the eye |
| Eye Irrit. | Irritant to the eye |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| 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 |
| 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 |
| PNEC | Predicted No-Effect Concentration |
| RTECS | Registry of Toxic Effects of Chemical Substances (database of NIOSH with toxicological information) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| Skin Sens. | Skin sensitization |
| UN RTDG | UN Recommendations on the Transport of Dangerous Good |
| vPvB | Very Persistent and very Bioaccumulative |

Key literature references and sources for data

Hazardous Products Regulations (HPR)
SOR/2022-272: Regulations Amending the Hazardous Products Regulations (GHS, Seventh Revised Edition)
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).



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

| Code | Text |
|------|--|
| H290 | May be corrosive to metals. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |

Disclaimer

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