SAFETY DATA SHEET



According to Work Health and Safety (WHS) Australia

Zinc-Alu Spray

Section 1. Identification

| Product identifier | : Zinc-Alu Spray |
|--------------------|------------------|
| Product code | : 110020 |

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

| responsible for this SDS Emergency telephone number | : National Poison Information TRANSPORT / EMERGENCY | | |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------|
| e-mail address of person | : msds@weicon.de | | |
| | Königsberger Str. 255 48157 Münster Germany Phone: +49 251 93220 Fax: +49(0)251 / 9322 - 244 Internet: www.weicon.de | Distributor's details : | Swift Supplies Online Pty Ltd Phone: +61 7 3180 8824 swiftsupplies.com.au |
| Supplier's details | : WEICON GmbH & Co. KG | Distributor's dataila : | Swift Supplies Online Dty Ltd |
| Aerosol product | | | |

Section 2. Hazard(s) identification

| Classification of the substance or mixture | : FLAMMABLE AEROSOLS - Category 1 GASES UNDER PRESSURE - Compressed gas ACUTE TOXICITY (dermal) - Category 4 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A GERM CELL MUTAGENICITY - Category 1 CARCINOGENICITY - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
|--------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GHS label elements | |



| Signal word | : DANGER |
|-------------------|---------------------------------------------------------------------------|
| Hazard statements | : H222 - Extremely flammable aerosol. |
| | H280 - Contains gas under pressure; may explode if heated. |
| | H312 - Harmful in contact with skin. |
| | H315 - Causes skin irritation. |
| | H319 - Causes serious eye irritation. |
| | H336 - May cause drowsiness or dizziness. |
| | H340 - May cause genetic defects. |
| | H350 - May cause cancer. |
| | H373 - May cause damage to organs through prolonged or repeated exposure. |
| - | |

Precautionary statements

Hazard pictograms

Section 2. Hazard(s) identification

| Prevention | P201 - Obtain special instructions before use. P281 - Use personal protective equipment as required. P280 - Wear protective gloves and protective clothing. Wear eye or face protection. 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. P260 - Do not breathe dust or mist. P264 - Wash thoroughly after handling. P251 - Do not pierce or burn, even after use. |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Response | P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P362 - Take off contaminated clothing and wash before reuse. P302 + P312, P352 - IF ON SKIN: Call a POISON CENTER or doctor if you feel unwell. Wash with plenty of water. 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 or attention. |
| Storage | P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. |
| Disposal | P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Supplemental label elements | : Not applicable. |

Other hazards which do not : None known. result in classification

Section 3. Composition and ingredient information

Substance/mixture

: Mixture

| Ingredient name | % (w/w) | CAS number | Classification |
|----------------------------------------|-----------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| propane | ≥10 - ≤30 | 74-98-6 | FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Compressed gas |
| butane | ≥10 - ≤30 | 106-97-8 | FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Compressed gas |
| acetone | ≥10 - ≤30 | 67-64-1 | FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| ethyl acetate | ≥10 - ≤30 | 141-78-6 | FLAMMABLE LIQUIDS - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic |
| Date of issue/Date of revision : 08.06 | 2020 Date of previous issue | :04.06.2020 | Version : 2.01 2/16 |

Section 3. Composition and ingredient information

| | - | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | effects) - Category 3 |
| Solvent naphtha (petroleum), light arom. A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F). | <10 | 64742-95-6 | FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/ IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 ASPIRATION HAZARD - Category 1 |
| aluminium powder (stabilised) | ≤10 | 7429-90-5 | FLAMMABLE SOLIDS - Category 1 SUBSTANCES AND MIXTURES, WHICH IN CONTACT WITH WATER, EMIT FLAMMABLE GASES - Category 2 |
| xylene | ≤8 | 1330-20-7 | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/ IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| zinc powder - zinc dust (stabilised) | ≤3 | 7440-66-6 | Not classified. |
| Naphtha (petroleum), hydrodesulfurized heavy A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 90°C to 230°C (194°F to 446°F). | ≤3 | 64742-82-1 | FLAMMABLE LIQUIDS - Category 3 GERM CELL MUTAGENICITY - Category 1B CARCINOGENICITY - Category 1B ASPIRATION HAZARD - Category 1 |

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

| Eye contact | : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |
| Skin contact | : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |

Most important symptoms/effects, acute and delayed

| Potential acute health e | ffects |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact | : Causes serious eye irritation. |
| Inhalation | Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. |
| Skin contact | : Harmful in contact with skin. Causes skin irritation. |
| Ingestion | : Can cause central nervous system (CNS) depression. |
| Over-exposure signs/sy | mptoms |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |
| ndication of immediate r | nedical attention and special treatment needed, if necessary |
| Notes to physician | Treat symptomatically Contact poison treatment specialist immediately if large |

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Section 4. First aid measures

| Specific treatments | : No specific treatment. |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| <u>Extinguishing media</u> Suitable extinguishing media | : Use an extinguishing agent suitable for the surrounding fire. |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unsuitable extinguishing media | : None known. |
| Specific hazards arising from the chemical | : Extremely flammable aerosol. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides |
| Special protective actions for fire-fighters | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| Special protective equipment for fire-fighters | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
|--------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| For emergency responders | : | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |
| Environmental precautions | : | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). |

Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Small spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

| Protective measures | Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. | 1 |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. | |
| Conditions for safe storage, including any incompatibilities | : Store in accordance with local regulations. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Eliminate all ignition sources. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. | |

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| propane | ACGIH TLV (United States, 3/2019). Oxygen Depletion [Asphyxiant]. Explosive potential. |
| butane | Safe Work Australia (Australia, 4/2018). TWA: 1900 mg/m³ 8 hours. TWA: 800 ppm 8 hours. |
| acetone | Safe Work Australia (Australia, 4/2018). STEL: 2375 mg/m ³ 15 minutes. STEL: 1000 ppm 15 minutes. TWA: 1185 mg/m ³ 8 hours. TWA: 500 ppm 8 hours. |
| ethyl acetate | Safe Work Australia (Australia, 4/2018). TWA: 720 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. STEL: 1440 mg/m ³ 15 minutes. |
| aluminium powder (stabilised) | Safe Work Australia (Australia, 4/2018). TWA: 10 mg/m³ 8 hours. Form: Dust TWA: 5 mg/m³, (as Al) 8 hours. Form: Welding fume |
| ate of issue/Date of revision : 08.06.2020 Date of pr | evious issue : 04.06.2020 Version : 2.01 6 |

| Section 8. Exposure controls and personal protection | | | |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| xylene | | Safe Work Australia (Australia, 4/2018). STEL: 655 mg/m ³ 15 minutes. STEL: 150 ppm 15 minutes. TWA: 350 mg/m ³ 8 hours. TWA: 80 ppm 8 hours. | |
| zinc powder - zinc dust (stabil | r fi n n | DFG MAC-values list (Germany, 7/2019). TWA: 2 mg/m ³ 8 hours. Form: inhalable raction PEAK: 4 mg/m ³ , 4 times per shift, 15 ninutes. Form: inhalable fraction PEAK: 0.4 mg/m ³ , 4 times per shift, 15 ninutes. Form: respirable fraction TWA: 0.1 mg/m ³ 8 hours. Form: respirable raction | |
| Appropriate engineering controls | : Use only with adequate ventilation. Use ventilation or other engineering controls contaminants below any recommended also need to keep gas, vapor or dust co limits. Use explosion-proof ventilation e | to keep worker exposure to airborne or statutory limits. The engineering controls incentrations below any lower explosive | |
| Environmental exposure controls | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. | | |
| Individual protection measure | <u>95</u> | | |
| Hygiene measures | eating, smoking and using the lavatory a Appropriate techniques should be used | to remove potentially contaminated clothing. sing. Ensure that eyewash stations and | |
| Eye/face protection | assessment indicates this is necessary gases or dusts. If contact is possible, the | oved standard should be used when a risk to avoid exposure to liquid splashes, mists, ne following protection should be worn, er degree of protection: chemical splash | |
| Skin protection | | | |
| Hand protection | be worn at all times when handling cher this is necessary. Considering the para check during use that the gloves are stil should be noted that the time to breakth different for different glove manufacture | nrough for any glove material may be | |
| Body protection | : Personal protective equipment for the b being performed and the risks involved before handling this product. When the wear anti-static protective clothing. For discharges, clothing should include anti- | and should be approved by a specialist re is a risk of ignition from static electricity, the greatest protection from static | |

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended : organic vapor (Type AX) and particulate filter

Section 9. Physical and chemical properties

| <u>Appearance</u> | | |
|----------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------|
| Physical state | : | Aerosol. |
| Color | : | Silver. |
| Odor | : | Solvent. Sweetish. |
| Odor threshold | : | Not available. |
| рН | : | No results available. |
| Melting point | : | Not available. |
| Boiling point | : | Not available. |
| Flash point | : | Closed cup: Not applicable. |
| Evaporation rate | : | Not available. |
| Flammability (solid, gas) | : | Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. |
| Lower and upper explosive (flammable) limits | : | Not available. |
| Vapor pressure | : | Not available. |
| Vapor density | : | Not available. |
| Relative density | : | Not available. |
| Density | : | Not available. |
| Solubility | : | Insoluble in the following materials: cold water and hot water. |
| Solubility in water | : | Not available. |
| Partition coefficient: n- octanol/water | : | Not available. |
| Auto-ignition temperature | : | Not applicable. |
| Decomposition temperature | : | Not available. |
| Viscosity | : | Not available. |
| Flow time (ISO 2431) | : | Not available. |
| <u>Aerosol product</u> | | |
| Type of aerosol | : | Spray |
| Heat of combustion | : | 30.61 kJ/g |

Section 10. Stability and reactivity

| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
|------------------------------------|--------------------------------------------------------------------------------------------------------|
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : Avoid all possible sources of ignition (spark or flame). |
| Incompatible materials | : No specific data. |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------|--------------------------|----------|
| butane | LC50 Inhalation Vapor | Rat | 658000 mg/m ³ | 4 hours |
| acetone | LD50 Oral | Rat | 5800 mg/kg | - |
| ethyl acetate | LD50 Oral | Rat | 5620 mg/kg | - |
| Solvent naphtha (petroleum), light arom. A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F). | LD50 Oral | Rat | 8400 mg/kg | - |
| xylene | LC50 Inhalation Gas. | Rat | 5000 ppm | 4 hours |
| | LD50 Oral | Rat | 4300 mg/kg | - |

Acute toxicity estimates

| Route | ATE value |
|--------------------|--------------|
| Dermal | 1950 mg/kg |
| Inhalation (gases) | 29318.18 ppm |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observatior |
|------------------------------|--------------------------|---------|-------|---------------|-------------|
| acetone | Eyes - Mild irritant | Human | - | 186300 ppm | - |
| | Eyes - Mild irritant | Rabbit | - | 10 UI | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 20 | - |
| | - | | | mg | |
| | Eyes - Severe irritant | Rabbit | - | 20 mg | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| | Skin - Mild irritant | Rabbit | - | 395 mg | - |
| Solvent naphtha (petroleum), | Eyes - Mild irritant | Rabbit | - | 24 hours 100 | - |
| ght arom. A complex | 5 | | | UI | |
| ombination of | | | | - | |
| ydrocarbons obtained from | | | | | |
| istillation of aromatic | | | | | |
| treams. It consists | | | | | |
| redominantly of aromatic | | | | | |
| vdrocarbons having carbon | | | | | |
| umbers predominantly in | | | | | |
| ne range of C8 through | | | | | |
| C10 and boiling in the range | | | | | |
| f approximately 135°C to | | | | | |
| 10°C (275°F to 410°F). | | | | | |
| ylene | Eyes - Mild irritant | Rabbit | _ | 87 mg | _ |
| Jiene | Eyes - Severe irritant | Rabbit | _ | 24 hours 5 | _ |
| | | Rubbit | | mg | |
| | Skin - Mild irritant | Rat | | 8 hours 60 UI | |
| | Skin - Moderate irritant | Rabbit | | 24 hours 500 | |
| | | Tabbit | 1- | | 1 - |

| zinc powder - zinc dust (stabilised) | nt Rabbit Human | - | mg 100 % 72 hours 300 ug l | - |
|-----------------------------------------|--------------------|---|-------------------------------------|---|
|-----------------------------------------|--------------------|---|-------------------------------------|---|

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|------------------------------------|----------------------------------------|-------------------|-------------------------------------------------------------------------|
| acetone ethyl acetate xylene | Category 3 Category 3 Category 3 | | Narcotic effects Narcotic effects Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------------|---------------|
| Solvent naphtha (petroleum), light arom. A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F). | Category 1 | - | - |

Aspiration hazard

| Name | Result |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Solvent naphtha (petroleum), light arom. A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F). Naphtha (petroleum), hydrodesulfurized heavy A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 90°C to 230°C (194°F to 446°F). | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

Information on the likely : Not available.

routes of exposure

Potential acute health effects

| Date of issue/Date of revision | :08.06.2020 | Date of previous issue | :04.06.2020 | Version | : 2.01 | 10/16 |
|--------------------------------|-------------------------|----------------------------|--------------------|-----------------|--------|-------|
| Ingestion | : Can caus | e central nervous system (| CNS) depression. | | | |
| Skin contact | : Harmful i | n contact with skin. Cause | s skin irritation. | | | |
| Inhalation | : Can caus dizziness | e central nervous system (| CNS) depression. | May cause drows | siness | or |
| Eye contact | : Causes s | erious eye irritation. | | | | |

Symptoms related to the physical, chemical and toxicological characteristics

| of inploting related to the phy | sidul, enermedi una texicological enaracteristics |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |

Delayed and immediate effects and also chronic effects from short and long term exposure

| <u>Short term exposure</u> | | |
|--------------------------------|-----|----------------|
| Potential immediate effects | : | Not available. |
| Potential delayed effects | : | Not available. |
| <u>Long term exposure</u> | | |
| Potential immediate effects | : | Not available. |
| Potential delayed effects | : | Not available. |
| Potential chronic health effe | ect | <u>S</u> |

Not available.

| General | : May cause damage to organs through prolonged or repeated exposure. |
|-----------------------|-------------------------------------------------------------------------------|
| Carcinogenicity | : May cause cancer. Risk of cancer depends on duration and level of exposure. |
| Mutagenicity | : May cause genetic defects. |
| Teratogenicity | : No known significant effects or critical hazards. |
| Developmental effects | : No known significant effects or critical hazards. |
| Fertility effects | : No known significant effects or critical hazards. |

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------|-------------------------------------|----------------------------------|----------------------------------------------|
| Zinc-Alu Spray butane acetone ethyl acetate Solvent naphtha (petroleum), light arom. A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C8 through C10 and boiling in the range of approximately 135°C to 210°C (275°F to 410°F). | N/A N/A 5800 5620 8400 | 1950 N/A N/A N/A N/A | 29318.2 N/A N/A N/A N/A | N/A 658 N/A N/A N/A | N/A N/A N/A N/A N/A |
| xylene | 4300 | 1100 | 5000 | N/A | N/A |

Section 12. Ecological information

| Product/ingredient name | Result | Species | Exposure |
|-----------------------------------------|-------------------------------------|--------------------------------------------------------------------------|----------------------|
| acetone | Acute EC50 20.565 mg/l Marine water | Algae - Ulva pertusa | Exposure 96 hours |
| acelone | | . | |
| | Acute LC50 6000000 µg/l Fresh water | Crustaceans - Gammarus pulex | 48 hours |
| | Acute LC50 10000 μg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 5600 ppm Fresh water | Fish - Poecilia reticulata | 96 hours |
| | Chronic NOEC 4.95 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Chronic NOEC 0.016 ml/L Fresh water | Crustaceans - Daphniidae | 21 days |
| | Chronic NOEC 0.1 ml/L Fresh water | Daphnia - Daphnia magna - Neonate | 21 days |
| | Chronic NOEC 5 µg/l Marine water | Fish - Gasterosteus aculeatus - Larvae | 42 days |
| ethyl acetate | Acute EC50 2500000 µg/l Fresh water | Algae - Selenastrum sp. | 96 hours |
| | Acute LC50 750000 μg/l Fresh water | Crustaceans - Gammarus pulex | 48 hours |
| | Acute LC50 154000 µg/l Fresh water | Daphnia - Daphnia cucullata | 48 hours |
| | Acute LC50 212500 µg/l Fresh water | Fish - Heteropneustes fossilis | 96 hours |
| | Chronic NOEC 2400 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| | Chronic NOEC 75.6 mg/l Fresh water | Fish - Pimephales promelas - Embryo | 32 days |
| aluminium powder (stabilised) | Acute LC50 38000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 120 µg/l Fresh water | Fish - Oncorhynchus mykiss - Embryo | 96 hours |
| | Chronic NOEC 9 mg/l Fresh water | Aquatic plants - Ceratophyllum demersum | 3 days |
| xylene | Acute EC50 90 mg/l Fresh water | Crustaceans - Cypris subglobosa | 48 hours |
| | Acute LC50 13400 μg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| zinc powder - zinc dust (stabilised) | Acute EC50 106 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata - Exponential growth phase | 72 hours |
| | Acute EC50 10000 μg/l Fresh water | Aquatic plants - Lemna minor | 4 days |
| | Acute IC50 65 μg/l Marine water | Algae - Nitzschia closterium - Exponential growth phase | 4 days |
| | Acute LC50 65 µg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute LC50 68 μg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| Date of issue/Date of revision | : 08.06.2020 Date of previous issue | :04.06.2020 Version | |

| Section 12. Ecolo | gical information | | |
|-------------------|------------------------------------|--------------------------------------------------------------------------|----------|
| | Acute LC50 12.21 µg/l Marine water | Fish - Periophthalmus waltoni - Adult | 96 hours |
| | Chronic EC10 27.3 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata - Exponential growth phase | 72 hours |
| | Chronic EC10 59.2 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| | Chronic NOEC 9 mg/l Fresh water | Aquatic plants - Ceratophyllum demersum | 3 days |
| | Chronic NOEC 178 µg/l Marine water | Crustaceans - Palaemon elegans | 21 days |
| | Chronic NOEC 2.6 µg/l Fresh water | Fish - Cyprinus carpio | 4 weeks |

Persistence and degradability

Not available.

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------------|--------|-------------|-----------|
| propane | 1.09 | - | low |
| butane | 2.89 | - | low |
| acetone | -0.23 | - | low |
| ethyl acetate | 0.68 | 30 | low |
| Solvent naphtha (petroleum), | - | 10 to 2500 | high |
| light arom. A complex | | | |
| combination of | | | |
| hydrocarbons obtained from | | | |
| distillation of aromatic | | | |
| streams. It consists | | | |
| predominantly of aromatic | | | |
| hydrocarbons having carbon | | | |
| numbers predominantly in | | | |
| the range of C8 through C10 | | | |
| and boiling in the range of | | | |
| approximately 135°C to | | | |
| 210°C (275°F to 410°F). | | | |
| xylene | 3.12 | 8.1 to 25.9 | low |
| Naphtha (petroleum), | - | 10 to 2500 | high |
| hydrodesulfurized heavy A | | | |
| complex combination of | | | |
| hydrocarbons obtained from | | | |
| a catalytic | | | |
| hydrodesulfurization process. | | | |
| It consists of hydrocarbons | | | |
| having carbon numbers | | | |
| predominantly in the range | | | |
| of C7 through C12 and | | | |
| boiling in the range of | | | |
| approximately 90°C to | | | |
| 230°C (194°F to 446°F). | | | |

Mobility in soil

| Soil/water partition |
|----------------------|
| coefficient (Koc) |

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

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Section 13. Disposal considerations

Disposal methods

to IMO instruments

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

| | ADG | ADR/RID | IMDG | ΙΑΤΑ |
|-------------------------------|-----------------------------------------------------------------------------|----------|----------|-----------------------------------------------------------------------------|
| UN number | UN1950 | UN1950 | UN1950 | UN1950 |
| UN proper shipping name | AEROSOLS | AEROSOLS | AEROSOLS | Aerosols, flammable |
| Transport hazard class(es) | 2.1 | | 2.1 | 2.1 |
| Packing group | - | - | - | - |
| Environmental hazards | Yes. The environmentally hazardous substance mark is not required. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |

| ADG | : | Special provisions 63, 190, 277, 327, 344, 381 |
|------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ADR/RID | : | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Limited quantity 1 L Special provisions 190, 327, 625, 344 Tunnel code (D) |
| IMDG | : | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-D, S-U <u>Special provisions</u> 63, 190, 277, 327, 344, 381, 959 |
| ΙΑΤΑ | : | The environmentally hazardous substance mark may appear if required by other transportation regulations. Quantity limitation Passenger and Cargo Aircraft: 75 kg. Packaging instructions: 203. Cargo Aircraft Only: 150 kg. Packaging instructions: 203. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y203. Special provisions A145, A167, A802 |
| Special precautions for user | : | Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage. |
| Transport in bulk according | : | Not available. |

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

| <u></u> | |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Australia | : All components are listed or exempted. |
| Canada | : All components are listed or exempted. |
| China | : All components are listed or exempted. |
| Europe | : All components are listed or exempted. |
| Japan | Japan inventory (ENCS): All components are listed or exempted. Japan inventory (ISHL): Not determined. |
| New Zealand | : All components are listed or exempted. |
| Philippines | : All components are listed or exempted. |
| Republic of Korea | : All components are listed or exempted. |
| Taiwan | : All components are listed or exempted. |
| Thailand | : Not determined. |
| Turkey | : All components are listed or exempted. |
| United States | : All components are active or exempted. |
| Viet Nam | : All components are listed or exempted. |

Section 16. Any other relevant information

| <u>History</u> | |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| Key to abbreviations | ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, |

Section 16. Any other relevant information

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations

Procedure used to derive the classification

| Classification | Justification |
|-----------------------------------------------------------------------|-----------------------|
| FLAMMABLE AEROSOLS - Category 1 | On basis of test data |
| GASES UNDER PRESSURE - Compressed gas | On basis of test data |
| ACUTE TOXICITY (dermal) - Category 4 | Calculation method |
| SKIN CORROSION/IRRITATION - Category 2 | Calculation method |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A | Calculation method |
| GERM CELL MUTAGENICITY - Category 1 | Calculation method |
| CARCINOGENICITY - Category 1 | Calculation method |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - | Calculation method |
| Category 3 | |
| SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 | Calculation method |
| References : Not available. | |

References

Indicates information that has changed from previously issued version.

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