

Consolidated Alloys Bakers Solderine Paste CA Group

Chemwatch: 14110 Version No: 7.1.13.9

Safety Data Sheet according to WHS Regulations (Hazardous Chemicals) Amendment 2020 and ADG requirements

Issue Date: 30/12/2020 Print Date: 16/08/2021 S.GHS.AUS.EN

SECTION 1 Identification of the substance / mixture and of the company / undertaking

Product Identifier

| Product name | Consolidated Alloys Bakers Solderine Paste |
|-------------------------------|---|
| Chemical Name | Not Applicable |
| Synonyms | Not Available |
| Proper shipping name | CORROSIVE LIQUID, N.O.S. (contains zinc chloride) |
| Chemical formula | Not Applicable |
| Other means of identification | Not Available |

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

Relevant identified uses Soldering flux in paste form.

Details of the supplier of the safety data sheet

| Registered company name | CA Group |
|-------------------------|--|
| Address | 32 Industrial Avenue Thomastown VIC 3074 Australia |
| Telephone | +61 3 8301 7100 |
| Fax | +61 3 9359 4076 |
| Website | www.cagroup.com.au |
| Email | jmarchese@cagroup.com.au |

Emergency telephone number

| Association / Organisation | (03) 8301 7100 |
|-----------------------------------|---|
| Emergency telephone numbers | (03) 8301 7107 (Business hours 9am – 5pm) |
| Other emergency telephone numbers | 0428 904 506 (After Hours) |

SECTION 2 Hazards identification

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

ChemWatch Hazard Ratings

| | Min | Max | |
|--------------|-----|-----|-------------------------|
| Flammability | 1 | | |
| Toxicity | 1 | | 0 = Minimum |
| Body Contact | 3 | - ; | 1 = Low |
| Reactivity | 1 | | 2 = Moderate |
| Chronic | 3 | | 3 = High 4 = Extreme |

| Poisons Schedule | S6 |
|-------------------------------|--|
| Classification ^[1] | Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1, Carcinogenicity Category 1A, Hazardous to the Aquatic Environment Long-Term Hazard Category 2, Corrosive to Metals Category 1 |
| | |

1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)







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| Signal word | Danger |
|-------------|--------|
| | |

Hazard statement(s)

| H314 | Causes severe skin burns and eye damage. |
|------|--|
| H350 | May cause cancer. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H290 | May be corrosive to metals. |

Precautionary statement(s) Prevention

| P201 | Obtain special instructions before use. | |
|------|--|--|
| P260 | Do not breathe mist/vapours/spray. | |
| P264 | Wash all exposed external body areas thoroughly after handling. | |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. | |
| P234 | Keep only in original packaging. | |
| P273 | Avoid release to the environment. | |

Precautionary statement(s) Response

| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. | |
|----------------|--|--|
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. | |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. | |
| P308+P313 | IF exposed or concerned: Get medical advice/ attention. | |
| P310 | Immediately call a POISON CENTER/doctor/physician/first aider. | |
| P363 | Wash contaminated clothing before reuse. | |
| P390 | Absorb spillage to prevent material damage. | |

Precautionary statement(s) Storage

P405 Store locked up.

Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

| CAS No | %[weight] | Name |
|------------|---|-------------------|
| 8009-03-8. | 50-60 | petrolatum |
| 8012-95-1. | 10-15 | paraffin oils |
| 7646-85-7 | 10-15 | zinc chloride |
| 12125-02-9 | <5 | ammonium chloride |
| Legend: | 2. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available | |

SECTION 4 First aid measures

Description of first aid measures

If this product comes in contact with the eyes:

Eye Contact

- Immediately hold eyelids apart and flush the eye continuously with running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper
- Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.
- Transport to hospital or doctor without delay.
- ▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

If skin or hair contact occurs:

- Immediately flush body and clothes with large amounts of water, using safety shower if available.
- Quickly remove all contaminated clothing, including footwear.
- Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre.
- Transport to hospital, or doctor.

Skin Contact

- In case of burns: Immediately apply cold water to burn either by immersion or wrapping with saturated clean cloth.
- DO NOT remove or cut away clothing over burnt areas. DO NOT pull away clothing which has adhered to the skin as this can cause further
- DO NOT break blister or remove solidified material.
- Quickly cover wound with dressing or clean cloth to help prevent infection and to ease pain. For large burns, sheets, towels or pillow slips are ideal; leave holes for eyes, nose and mouth.
- DO NOT apply ointments, oils, butter, etc. to a burn under any circumstances.

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Water may be given in small quantities if the person is conscious. Alcohol is not to be given under any circumstances ► Reassure Treat for shock by keeping the person warm and in a lying position. Seek medical aid and advise medical personnel in advance of the cause and extent of the injury and the estimated time of arrival of the patient. If fumes or combustion products are inhaled remove from contaminated area. Lay patient down. Keep warm and rested. Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. Inhalation Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary ► Transport to hospital, or doctor. Avoid giving milk or oils. Avoid giving alcohol. For advice, contact a Poisons Information Centre or a doctor at once. Urgent hospital treatment is likely to be needed. If swallowed do **NOT** induce vomiting If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. Ingestion Observe the patient carefully. Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious. Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. Transport to hospital or doctor without delay. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of

Indication of any immediate medical attention and special treatment needed

For acute or short term repeated exposures to petroleum distillates or related hydrocarbons:

- Primary threat to life, from pure petroleum distillate ingestion and/or inhalation, is respiratory failure
- Patients should be quickly evaluated for signs of respiratory distress (e.g. cyanosis, tachypnoea, intercostal retraction, obtundation) and given oxygen. Patients with inadequate tidal volumes or poor arterial blood gases (pO2 50 mm Hg) should be intubated.
- Arrhythmias complicate some hydrocarbon ingestion and/or inhalation and electrocardiographic evidence of myocardial injury has been reported; intravenous lines and cardiac monitors should be established in obviously symptomatic patients. The lungs excrete inhaled solvents, so that hyperventilation improves clearance.
- A chest x-ray should be taken immediately after stabilisation of breathing and circulation to document aspiration and detect the presence of pneumothorax.
- Epinephrine (adrenalin) is not recommended for treatment of bronchospasm because of potential myocardial sensitisation to catecholamines. Inhaled cardioselective bronchodilators (e.g. Alupent, Salbutamol) are the preferred agents, with aminophylline a second choice.
- Lavage is indicated in patients who require decontamination; ensure use of cuffed endotracheal tube in adult patients. [Ellenhorn and Barceloux: Medical Toxicology]

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

Treat symptomatically.

For acute or short term repeated exposures to strong acids:

- Airway problems may arise from laryngeal edema and inhalation exposure. Treat with 100% oxygen initially.
- Respiratory distress may require cricothyroidotomy if endotracheal intubation is contraindicated by excessive swelling
- Intravenous lines should be established immediately in all cases where there is evidence of circulatory compromise.
- Strong acids produce a coagulation necrosis characterised by formation of a coagulum (eschar) as a result of the dessicating action of the acid on proteins in specific tissues.
 INGESTION:
- Immediate dilution (milk or water) within 30 minutes post ingestion is recommended.
- ▶ **DO NOT** attempt to neutralise the acid since exothermic reaction may extend the corrosive injury.
- Be careful to avoid further vomit since re-exposure of the mucosa to the acid is harmful. Limit fluids to one or two glasses in an adult.
- ► Charcoal has no place in acid management.
- Some authors suggest the use of lavage within 1 hour of ingestion.

SKIN:

- ▶ Skin lesions require copious saline irrigation. Treat chemical burns as thermal burns with non-adherent gauze and wrapping.
- Deep second-degree burns may benefit from topical silver sulfadiazine.

EYE:

- Eye injuries require retraction of the eyelids to ensure thorough irrigation of the conjuctival cul-de-sacs. Irrigation should last at least 20-30 minutes. DO NOT use neutralising agents or any other additives. Several litres of saline are required.
- Cycloplegic drops, (1% cyclopentolate for short-term use or 5% homatropine for longer term use) antibiotic drops, vasoconstrictive agents or artificial tears may be indicated dependent on the severity of the injury.
- ▶ Steroid eye drops should only be administered with the approval of a consulting ophthalmologist).

[Ellenhorn and Barceloux: Medical Toxicology]

- Heavy and persistent skin contamination over many years may lead to dysplastic changes. Pre-existing skin disorders may be aggravated by exposure to this product.
- In general, emesis induction is unnecessary with high viscosity, low volatility products, i.e. most oils and greases.
- High pressure accidental injection through the skin should be assessed for possible incision, irrigation and/or debridement.

NOTE: Injuries may not seem serious at first, but within a few hours tissue may become swollen, discoloured and extremely painful with extensive subcutaneous necrosis. Product may be forced through considerable distances along tissue planes.

SECTION 5 Firefighting measures

Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

Special hazards arising from the substrate or mixture

Fire Incompatibility

Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result

Advice for firefighters

Fire Fighting

Alert Fire Brigade and tell them location and nature of hazard.

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| | Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use fire fighting procedures suitable for surrounding area. Do not approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire. Combustible. |
|-----------------------|--|
| Fire/Explosion Hazard | Slight fire hazard when exposed to heat or flame. Acids may react with metals to produce hydrogen, a highly flammable and explosive gas. Heating may cause expansion or decomposition leading to violent rupture of containers. May emit acrid smoke and corrosive fumes. Combustion products include: carbon monoxide (CO) carbon dioxide (CO2) hydrogen chloride phosgene other pyrolysis products typical of burning organic material. NOTE: Burns with intense heat. Produces melting, flowing, burning liquid and dense acrid black smoke. |
| HAZCHEM | 2X |

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Environmental precautions

See section 12

Methods and material for containment and cleaning up

| motriodo aria matorial for come | |
|---------------------------------|---|
| Minor Spills | Drains for storage or use areas should have retention basins for pH adjustments and dilution of spills before discharge or disposal of material. Check regularly for spills and leaks. Slippery when spilt. Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Control personal contact with the substance, by using protective equipment. Contain and absorb spill with sand, earth, inert material or vermiculite. Wipe up. Place in a suitable, labelled container for waste disposal. |
| Major Spills | Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by all means available, spillage from entering drains or water courses. Consider evacuation (or protect in place). No smoking, naked lights or ignition sources. Increase ventilation. Slippery when spilt. |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

SECTION 7 Handling and storage

| Precautions for safe handling | |
|-------------------------------|---|
| Safe handling | Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. Electrostatic discharge may be generated during pumping - this may result in fire. Ensure electrical continuity by bonding and grounding (earthing) all equipment. Restrict line velocity during pumping in order to avoid generation of electrostatic discharge (<=1 m/sec until fill pipe submerged to twice its diameter, then <= 7 m/sec). Avoid splash filling. Do NOT use compressed air for filling discharging or handling operations. Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Avoid contact with moisture. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers securely sealed when not in use. DO NOT allow clothing wet with material to stay in contact with skin |
| Other information | Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Observe manufacturer's storage and handling recommendations contained within this SDS. |

Conditions for safe storage, including any incompatibilities

Suitable container

- ▶ **DO NOT** use aluminium or galvanised containers
- ► Check regularly for spills and leaks

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- Lined metal can, lined metal pail/ can.
- Plastic pail.
- Polvliner drum.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

For low viscosity materials

- ▶ Drums and jerricans must be of the non-removable head type.
- ▶ Where a can is to be used as an inner package, the can must have a screwed enclosure.

For materials with a viscosity of at least 2680 cSt. (23 deg. C) and solids (between 15 C deg. and 40 deg C.):

- Removable head packaging;
- Cans with friction closures and
- ▶ low pressure tubes and cartridges

may be used.

Where combination packages are used, and the inner packages are of glass, porcelain or stoneware, there must be sufficient inert cushioning material in contact with inner and outer packages unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.

Storage incompatibility

- Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air.
- Segregate from alkalies, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.
- Avoid strong bases.
- Avoid reaction with oxidising agents

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

| Source | Ingredient | Material name | TWA | STEL | Peak | Notes |
|------------------------------|-------------------|---------------------------|----------|---------------|---------------|---------------|
| Australia Exposure Standards | petrolatum | Oil mist, refined mineral | 5 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | paraffin oils | Oil mist, refined mineral | 5 mg/m3 | Not Available | Not Available | Not Available |
| Australia Exposure Standards | zinc chloride | Zinc chloride (fume) | 1 mg/m3 | 2 mg/m3 | Not Available | Not Available |
| Australia Exposure Standards | ammonium chloride | Ammonium chloride (fume) | 10 mg/m3 | 20 mg/m3 | Not Available | Not Available |

Emergency Limits

| Ingredient | TEEL-1 | TEEL-2 | TEEL-3 |
|-------------------|-----------|-------------|-------------|
| petrolatum | 140 mg/m3 | 1,500 mg/m3 | 8,900 mg/m3 |
| paraffin oils | 140 mg/m3 | 1,500 mg/m3 | 8,900 mg/m3 |
| zinc chloride | 2 mg/m3 | 800 mg/m3 | 4,800 mg/m3 |
| ammonium chloride | 20 mg/m3 | 54 mg/m3 | 330 mg/m3 |

| Ingredient | Original IDLH | Revised IDLH |
|-------------------|---------------|---------------|
| petrolatum | 2,500 mg/m3 | Not Available |
| paraffin oils | 2,500 mg/m3 | Not Available |
| zinc chloride | 50 mg/m3 | Not Available |
| ammonium chloride | Not Available | Not Available |

Exposure controls

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are:

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Appropriate engineering controls

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use.

Employers may need to use multiple types of controls to prevent employee overexposure.

For molten materials:

Provide mechanical ventilation; in general such ventilation should be provided at compounding/ converting areas and at fabricating/ filling work stations where the material is heated. Local exhaust ventilation should be used over and in the vicinity of machinery involved in handling the molten material

Personal protection









Chemical goggles

Full face shield may be required for supplementary but never for primary protection of eyes.

Eye and face protection

Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable.

Skin protection

See Hand protection below

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Hands/feet protection

Wear chemical protective gloves, e.g. PVC.

- Wear safety footwear or safety gumboots, e.g. Rubber
- ▶ When handling corrosive liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Body protection

See Other protection below

- Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent]
- Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. A respirator affording higher levels of protection may be substituted. IAS/NZS 1715 or national equivalent!
- Emergency deluge showers and eyewash fountains, supplied with potable water, should be located near, within sight of, and on the same level with locations where direct exposure is likely.

Other protection

- Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. For maintenance and decontamination activities, authorized employees entering the area should be provided with and required to wear clean, impervious garments, including gloves, boots and continuous-air supplied hood.
- Prior to removing protective garments the employee should undergo decontamination and be required to shower upon removal of the garments and hood.
- When handling hot or molten liquids, wear trousers or overalls outside of boots, to avoid spills entering boots.
- Overalls.
- PVC Apron.
- PVC protective suit may be required if exposure severe.
- Eyewash unit.
- Ensure there is ready access to a safety shower.

Respiratory protection

Type AB-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required. Degree of protection varies with both face-piece and Class of filter; the nature of protection varies with Type of filter.

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|--------------------------|
| up to 10 x ES | AB-AUS P2 | - | AB-PAPR-AUS / Class 1 P2 |
| up to 50 x ES | - | AB-AUS / Class 1 P2 | - |
| up to 100 x ES | - | AB-2 P2 | AB-PAPR-2 P2 ^ |

^ - Full-face

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted. Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

For molten materials:

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

| Appearance | Pink odourless waxy paste; partly mixes with water. | | |
|--|---|---|----------------|
| Physical state | Liquid | Relative density (Water = 1) | Not Applicable |
| Odour | Not Available | Partition coefficient n-octanol / water | Not Available |
| Odour threshold | Not Available | Auto-ignition temperature (°C) | Not Available |
| pH (as supplied) | Not Applicable | Decomposition temperature | Not Available |
| Melting point / freezing point (°C) | Not Available | Viscosity (cSt) | Not Available |
| Initial boiling point and boiling range (°C) | Not Available | Molecular weight (g/mol) | Not Applicable |
| Flash point (°C) | Not Applicable | Taste | Not Available |
| Evaporation rate | Not Available | Explosive properties | Not Available |
| Flammability | Not Applicable | Oxidising properties | Not Available |
| Upper Explosive Limit (%) | Not Applicable | Surface Tension (dyn/cm or mN/m) | Not Available |
| Lower Explosive Limit (%) | Not Applicable | Volatile Component (%vol) | Not Available |
| Vapour pressure (kPa) | Not Available | Gas group | Not Available |

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| Solubility in water | Partly miscible | pH as a solution (%) | Not Available |
|--------------------------|-----------------|----------------------|---------------|
| Vapour density (Air = 1) | Not Available | VOC g/L | Not Available |

SECTION 10 Stability and reactivity

| Reactivity | See section 7 |
|------------------------------------|---|
| Chemical stability | Contact with alkaline material liberates heat |
| Possibility of hazardous reactions | See section 7 |
| Conditions to avoid | See section 7 |
| Incompatible materials | See section 7 |
| Hazardous decomposition products | See section 5 |

SECTION 11 Toxicological information

Information on toxicological effects

Inhalation of vapours may cause drowsiness and dizziness. This may be accompanied by sleepiness, reduced alertness, loss of reflexes, lack of co-ordination, and vertigo.

Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual. Inhaling high concentrations of mixed hydrocarbons can cause narcosis, with nausea, vomiting and lightheadedness, Low molecular weight

(C2-C12) hydrocarbons can irritate mucous membranes and cause incoordination, giddiness, nausea, vertigo, confusion, headache, appetite Inhaled loss, drowsiness, tremors and stupor.

Central nervous system (CNS) depression may include general discomfort, symptoms of giddiness, headache, dizziness, nausea, anaesthetic effects, slowed reaction time, slurred speech and may progress to unconsciousness. Serious poisonings may result in respiratory depression and may be fatal.

Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage. There may be dizziness, headache, nausea and weakness.

The material can produce chemical burns within the oral cavity and gastrointestinal tract following ingestion. Ingestion

Swallowing of the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis; serious consequences may result. (ICSC13733)

Accidental ingestion of the material may be damaging to the health of the individual.

The material can produce chemical burns following direct contact with the skin. Irritation and skin reactions are possible with sensitive skin Open cuts, abraded or irritated skin should not be exposed to this material **Skin Contact**

The material may accentuate any pre-existing dermatitis condition

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

The material can produce chemical burns to the eye following direct contact. Vapours or mists may be extremely irritating. Eye

If applied to the eyes, this material causes severe eye damage

There is ample evidence that this material can be regarded as being able to cause cancer in humans based on experiments and other information Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Repeated or prolonged exposure to acids may result in the erosion of teeth, swelling and/or ulceration of mouth lining. Irritation of airways to lung, with cough, and inflammation of lung tissue often occurs.

Chronic minor exposure to hydrogen chloride (HCI) vapour or fume may cause discolouration or erosion of the teeth, bleeding of the nose and gums; and ulceration of the mucous membranes of the nose. Workers exposed to hydrochloric acid suffered from stomach inflammation and a number of cases of chronic bronchitis (airway inflammation) have also been reported. Repeated or prolonged exposure to dilute solutions of Chronic hydrogen chloride may cause skin inflammation.

Constant or exposure over long periods to mixed hydrocarbons may produce stupor with dizziness, weakness and visual disturbance, weight loss and anaemia, and reduced liver and kidney function. Skin exposure may result in drying and cracking and redness of the skin.

Welding or flame cutting of metals with zinc or zinc dust coatings may result in inhalation of zinc oxide fume; high concentrations of zinc oxide fume may result in "metal fume fever"; also known as "brass chills", an industrial disease of short duration. [I.L.O] Symptoms include malaise, fever, weakness, nausea and may appear quickly if operations occur in enclosed or poorly ventilated areas.

Oil may contact the skin or be inhaled. Extended exposure can lead to eczema, inflammation of hair follicles, pigmentation of the face and warts

| nsolidated Alloys Bakers | TOXICITY | IRRITATION |
|--------------------------|--|--|
| Solderine Paste | Not Available | Not Available |
| | TOXICITY | IRRITATION |
| petrolatum | Dermal (rabbit) LD50: >2000 mg/kg ^[1] | Eye: no adverse effect observed (not irritating) ^[1] |
| | Oral(Rat) LD50; >5000 mg/kg ^[1] | Skin: no adverse effect observed (not irritating) ^[1] |
| | TOXICITY | IRRITATION |
| paraffin oils | Inhalation(Rat) LC50; 2062 ppm4h ^[2] | Eye (rabbit): 500 mg moderate |
| | Oral(Mouse) LD50; 22000 mg/kg ^[2] | Skin (rabbit): 100 mg/24h mild |
| | TOXICITY | IRRITATION |
| zinc chloride | dermal (rat) LD50: >2000 mg/kg ^[1] | Not Available |
| | Oral(Guinea) LD50; 200 mg/kg ^[2] | |

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| | TOXICITY | IRRITATION | | | |
|-----------------------------------|--|--|---|--|--|
| ammonium chloride | dermal (rat) LD50: >2000 mg/kg ^[1] | Eye (rabbit): 100 |) mg SEVERE | | |
| | Oral(Mouse) LD50; 1300 mg/kg ^[2] | Eye (rabbit): 500 | 0 mg/24h SEVERE | | |
| Legend: | Value obtained from Europe ECHA Registered Subspecified data extracted from RTECS - Register of To | - | ained from manufacturer's SDS. Unless otherwise | | |
| | | | | | |
| PETROLATUM | Dermal (rabbit) TDLo: 100 ml/kg/30D-I Tumorigenic effects. "Hydrocarbon wax" describes a group of solid C20 to C36 paraffinic hydrocarbons which are not absorbed in the gastro-intestinal tract and in small quantity will pass through undigested. Refined waxes are used widely in cosmetic surgery over many years and this demonstrates their low toxicity; many guidelines exist for their safe use. However, occasionally there are reports of adverse effects with these products. Deposits under the skin, referred to as "paraffinoma" have been described, but these are not normally associated with other progressive changes. Long-term toxicity studies indicated that petroleum-derived paraffin and microcrystalline waxes are non-toxic and do not cause cancer. | | | | |
| PARAFFIN OILS | The materials included in the Lubricating Base Oils category are related from both process and physical-chemical perspectives; The potential toxicity of a specific distillate base oil is inversely related to the severity or extent of processing the oil has undergone, since: The adverse effects of these materials are associated with undesirable components, and The levels of the undesirable components are inversely related to the degree of processing; Distillate base oils receiving the same degree or extent of processing will have similar toxicities; The potential toxicity of residual base oils is independent of the degree of processing the oil receives. The reproductive and developmental toxicity of the distillate base oils is inversely related to the degree of processing. Unrefined & mildly refined distillate base oils contain the highest levels of undesirable components, have the largest variation of hydrocarbon molecules and have shown the highest potential cancer-causing and mutation-causing activities. Highly and severely refined distillate base oils are produced from unrefined and mildly refined oils by removing or transforming undesirable components. In comparison to unrefined and mildly refined base oils, the highly and severely refined distillate base oils have a smaller range of hydrocarbon molecules and have demonstrated very low mammalian toxicity. Testing of residual oils for mutation-causing and cancer-causing potential has shown negative results, supporting the belief that these materials lack biologically active components or the components are largely non-bioavailable due to their molecular size. Toxicity testing has consistently shown that lubricating base oils have low acute toxicities. Numerous tests have shown that a lubricating base oil's mutagenic and carcinogenic potential correlates with its 3-7 ring polycyclic aromatic compound (PAC) content, and the level of DMSO extractables (e.g. IP346 assay), both characteristics that are directly related to the degree/conditions of processin | | | | |
| ZINC CHLORIDE | vesicles, scaling and thickening of the skin. | ble to genetic damage when the pH framay protect the cells of the airway from secreted there). ed contact causing inflammation. Represent years after exposure to the matering DS) which can occur after exposure to revious airways disease in a non-atopy cumented exposure to the irritant. Other bronchial hyperreactivity on methologic asthmal following an irritating inhirritating substance. On the other handing substance (often particles) and is and mucus production. Indirect the production or repeated exposure and may production. | m direct exposure to inhaled acidic mists (which also reated or prolonged exposure to irritants may produce all ends. This may be due to a non-allergic condition to high levels of highly irritating compound. Main pic individual, with sudden onset of persistent her criteria for diagnosis of RADS include a reversible acholine challenge testing, and the lack of minimal alation is an infrequent disorder with rates related to I, industrial bronchitis is a disorder that occurs as a completely reversible after exposure ceases. The ding reduced lung function. | | |
| AMMONIUM CHLORIDE | The material may produce severe irritation to the eye produce conjunctivitis. | causing pronounced inflammation. Re | epeated or prolonged exposure to irritants may | | |
| Acute Toxicity | × | Carcinogenicity | ✓ | | |
| Skin Irritation/Corrosion | → | Reproductivity | × | | |
| Serious Eye Damage/Irritation | ✓ | STOT - Single Exposure | × | | |
| Respiratory or Skin sensitisation | × | STOT - Repeated Exposure | × | | |
| | · · | | <u></u> | | |

Legend:

X − Data either not available or does not fill the criteria for classification
 ✓ − Data available to make classification

Aspiration Hazard

SECTION 12 Ecological information

Mutagenicity

Toxicity

| Composition of Allege Polyana | Endpoint | Test Duration (hr) | Species | Value | Source |
|---|------------------|--------------------|---------------|------------------|------------------|
| Consolidated Alloys Bakers Solderine Paste | Not Available | Not Available | Not Available | Not Available | Not Available |

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| | Endpoint | Test Duration (hr) | Species | Value | Source |
|-------------------|------------------|--|---|-----------------------------|--------|
| petrolatum | Not Available | Not Available | Not Available | Not Available Not Available | |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | EC50 | 48h | Crustacea | 0.016-0.027mg/L | 4 |
| paraffin oils | EC50(ECx) | 48h | Crustacea | 0.016-0.027mg/L | 4 |
| | LC50 | 96h | Fish | >100mg/L | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | NOEC(ECx) | 672h | Algae or other aquatic plants | 0.005-0.015mg/L | 4 |
| zinc chloride | BCF | 1680h | Fish | 58-116 | 7 |
| | EC50 | 72h | Algae or other aquatic plants | 0.011mg/L | 4 |
| | LC50 | 96h | Fish | 0.023-0.031mg/l | 4 |
| | EC50 | 48h | Crustacea | 0.56mg/L | 5 |
| | EC50 | 96h | Algae or other aquatic plants | 0.68-2.9mg/l | 4 |
| | Endpoint | Test Duration (hr) | Species | Value | Source |
| | EC50 | 72h | Algae or other aquatic plants | >76.6mg/l | 4 |
| | LC50 | 96h | Fish | 0.14mg/l | 4 |
| ammonium chloride | EC50 | 48h | Crustacea | 0.075-0.126mg/l | 4 |
| | NOEC(ECx) | Not Available | Fish | 0.002mg/L | 5 |
| | EC50 | 96h | Algae or other aquatic plants | 58.476-59.706mg/L | 4 |
| Legend: | V3.12 (QSAR) | - Aquatic Toxicity Data (Estimated) 4. | HA Registered Substances - Ecotoxicological Info JS EPA, Ecotox database - Aquatic Toxicity Data I (Japan) - Bioconcentration Data 8. Vendor Data | 5. ECETOC Aquatic Hazard A | |

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

Do NOT allow product to come in contact with surface waters or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash-waters.

Wastes resulting from use of the product must be disposed of on site or at approved waste sites.

When spilled this product may act as a typical oil, causing a film, sheen, emulsion or sludge at or beneath the surface of the body of water. The oil film on water surface may physically affect the aquatic organisms, due to the interruption of the

oxygen transfer between the air and the water

Oils of any kind can cause:

- drowning of water-fowl due to lack of buoyancy, loss of insulating capacity of feathers, starvation and vulnerability to predators due to lack of mobility
- lethal effects on fish by coating gill surfaces, preventing respiration
- asphyxiation of benthic life forms when floating masses become engaged with surface debris and settle on the bottom and
- adverse aesthetic effects of fouled shoreline and beaches

In case of accidental releases on the soil, a fine film is formed on the soil, which prevents the plant respiration process and the soil particle saturation. It may cause deep water infestation.

Ecotoxicity:

The tolerance of water organisms towards pH margin and variation is diverse. Recommended pH values for test species listed in OECD guidelines are between 6.0 and almost 9. Acute testing with fish showed 96h-LC50 at about pH 3.5

Prevent, by any means available, spillage from entering drains or water courses.

DO NOT discharge into sewer or waterways

Persistence and degradability

| Ingredient | Persistence: Water/Soil | Persistence: Air |
|---------------|-------------------------|------------------|
| zinc chloride | HIGH | HIGH |

Bioaccumulative potential

| Ingredient | Bioaccumulation | |
|---------------|--------------------|--|
| zinc chloride | HIGH (BCF = 16000) | |

Mobility in soil

| Ingredient | Mobility |
|---------------|-------------------|
| zinc chloride | LOW (KOC = 23.74) |

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

- ▶ Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

Otherwise:

If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.

- Where possible retain label warnings and SDS and observe all notices pertaining to the product.
 - DO NOT allow wash water from cleaning or process equipment to enter drains.
 - It may be necessary to collect all wash water for treatment before disposal.

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- ▶ In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
 Recycle wherever possible.
- Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
- Treat and neutralise at an approved treatment plant. Treatment should involve: Neutralisation with soda-ash or soda-lime followed by: burial in a land-fill specifically licensed to accept chemical and / or pharmaceutical wastes or Incineration in a licensed apparatus
- ▶ Decontaminate empty containers with 5% aqueous sodium hydroxide or soda ash, followed by water. Observe all label safeguards until containers are cleaned and destroyed.

SECTION 14 Transport information

Labels Required



Marine Pollutant



HAZCHEM

2X

Land transport (ADG)

| Land transport (ADO) | | |
|------------------------------|---|--|
| UN number | 1760 | |
| UN proper shipping name | CORROSIVE LIQUID, N.O.S. (contains zinc chloride) | |
| Transport hazard class(es) | Class 8 Subrisk Not Applicable | |
| Packing group | III | |
| Environmental hazard | Environmentally hazardous | |
| Special precautions for user | Special provisions 223 274 Limited quantity 5 L | |

Air transport (ICAO-IATA / DGR)

| UN number | 1760 | | |
|------------------------------|---|----------------------|---|
| UN proper shipping name | Corrosive liquid, n.o.s. * (contains zinc chloride) | | |
| Transport hazard class(es) | ICAO/IATA Class ICAO / IATA Subrisk ERG Code | 8 Not Applicable 8L | |
| Packing group | III | | |
| Environmental hazard | Environmentally hazardous | | |
| Special precautions for user | Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack Passenger and Cargo Packing Instructions Passenger and Cargo Maximum Qty / Pack Passenger and Cargo Limited Quantity Packing Instructions Passenger and Cargo Limited Maximum Qty / Pack | | A3 A803 856 60 L 852 5 L Y841 1 L |

Sea transport (IMDG-Code / GGVSee)

| UN number | 1760 | | |
|------------------------------|---|----------------------|--|
| UN proper shipping name | CORROSIVE LIQUID, N.O.S. (contains zinc chloride) | | |
| Transport hazard class(es) | IMDG Class 8 IMDG Subrisk Not | t Applicable | |
| Packing group | III | | |
| Environmental hazard | Marine Pollutant | | |
| Special precautions for user | | F-A , S-B 223 274 | |

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Limited Quantities

5 L

Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

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Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name | Group |
|-------------------|---------------|
| petrolatum | Not Available |
| paraffin oils | Not Available |
| zinc chloride | Not Available |
| ammonium chloride | Not Available |

Transport in bulk in accordance with the ICG Code

| Product name | Ship Type |
|-------------------|---------------|
| petrolatum | Not Available |
| paraffin oils | Not Available |
| zinc chloride | Not Available |
| ammonium chloride | Not Available |

SECTION 15 Regulatory information

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

petrolatum is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

paraffin oils is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

zinc chloride is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 2

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 4

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) -Schedule 6

Australian Inventory of Industrial Chemicals (AIIC)

ammonium chloride is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australian Inventory of Industrial Chemicals (AIIC)

FEI Equine Prohibited Substances List - Banned Substances FEI Equine Prohibited Substances List (EPSL)

National Inventory Status

| National inventory status | |
|--|--|
| National Inventory | Status |
| Australia - AIIC / Australia Non-Industrial Use | Yes |
| Canada - DSL | Yes |
| Canada - NDSL | No (petrolatum; paraffin oils; zinc chloride; ammonium chloride) |
| China - IECSC | Yes |
| Europe - EINEC / ELINCS / NLP | Yes |
| Japan - ENCS | No (petrolatum; paraffin oils) |
| Korea - KECI | Yes |
| New Zealand - NZIoC | Yes |
| Philippines - PICCS | Yes |
| USA - TSCA | Yes |
| Taiwan - TCSI | Yes |
| Mexico - INSQ | Yes |
| Vietnam - NCI | Yes |
| Russia - FBEPH | Yes |
| Legend: | Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

SECTION 16 Other information

Revision Date

30/12/2020

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Print Date: 16/08/2021

Initial Date

27/08/2004

SDS Version Summary

| Version | Date of Update | Sections Updated |
|----------|----------------|--|
| 6.1.1.1 | 01/11/2019 | One-off system update. NOTE: This may or may not change the GHS classification |
| 7.1.1.1 | 30/12/2020 | Classification change due to full database hazard calculation/update. |
| 7.1.2.1 | 26/04/2021 | Regulation Change |
| 7.1.3.1 | 03/05/2021 | Regulation Change |
| 7.1.4.1 | 06/05/2021 | Regulation Change |
| 7.1.5.1 | 10/05/2021 | Regulation Change |
| 7.1.5.2 | 30/05/2021 | Template Change |
| 7.1.5.3 | 04/06/2021 | Template Change |
| 7.1.5.4 | 05/06/2021 | Template Change |
| 7.1.6.4 | 07/06/2021 | Regulation Change |
| 7.1.6.5 | 09/06/2021 | Template Change |
| 7.1.6.6 | 11/06/2021 | Template Change |
| 7.1.6.7 | 15/06/2021 | Template Change |
| 7.1.7.7 | 17/06/2021 | Regulation Change |
| 7.1.8.7 | 21/06/2021 | Regulation Change |
| 7.1.8.8 | 05/07/2021 | Template Change |
| 7.1.9.8 | 14/07/2021 | Regulation Change |
| 7.1.10.8 | 19/07/2021 | Regulation Change |
| 7.1.10.9 | 01/08/2021 | Template Change |
| 7.1.11.9 | 02/08/2021 | Regulation Change |
| 7.1.12.9 | 05/08/2021 | Regulation Change |
| 7.1.13.9 | 09/08/2021 | Regulation Change |

Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

Definitions and abbreviations

PC-TWA: Permissible Concentration-Time Weighted Average

PC-STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit。

IDLH: Immediately Dangerous to Life or Health Concentrations

ES: Exposure Standard OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level

TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value

BCF: BioConcentration Factors BEI: Biological Exposure Index

AIIC: Australian Inventory of Industrial Chemicals

DSL: Domestic Substances List NDSL: Non-Domestic Substances List

IECSC: Inventory of Existing Chemical Substance in China

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

NLP: No-Longer Polymers

ENCS: Existing and New Chemical Substances Inventory

KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals

PICCS: Philippine Inventory of Chemicals and Chemical Substances

TSCA: Toxic Substances Control Act

TCSI: Taiwan Chemical Substance Inventory

INSQ: Inventario Nacional de Sustancias Químicas

NCI: National Chemical Inventory

FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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