## Fallout Remover Auto Klene Solutions

Chemwatch: **5270-60** Version No: **5.1.1.1** 

Safety Data Sheet according to WHS and ADG requirements

Chamwatch Hazard Alart Codo:

Issue Date: **01/11/2024**Print Date: **01/02/2025**S.GHS.AUS.EN

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

Product Identifier		
Product name	Fallout Remover	
Chemical Name	Not Applicable	
Synonyms	ot Available	
Proper shipping name	ORROSIVE LIQUID, N.O.S. (contains phosphoric acid and dodecylbenzenesulfonic acid)	
Chemical formula	Not Applicable	
Other means of identification	Not Available	
Relevant identified uses of the s	substance or mixture and uses advised against	
Relevant identified uses	Removal of Industrial Fallout and Brake Dust.  Linear alkylbenzene sulfonates (LAS) are, by volume, the most important group of synthetic anionic surfactant today. LAS are mainly used in laundry detergents and cleaning agents. LAS are frequently used as the sodium salts as the sole surfactant in a formulation or in conjunction with other anionic, nonionic or cationic surfactants. LAS consist of an alkyl chain attached to a benzene ring in the para position to the sulfonate group. Sometimes toluene, xylene and naphthalene are used in place of benzene. The homologue distribution in commercial products covers alkyl chain lengths from C10 to C13 with an average chain length of C11.6. LAS raw materials are derived from linear alkyl benzenes in which the ring is attached to a C-atom which is itself attached to two other C-atoms.	
Details of the supplier of the saf	fety data sheet	
Registered company name	Auto Klene Solutions	
Address	1/83 Merrindale Drive Croydon VIC 3136 Australia	
Telephone	+61 3 8761 1900	
Fax	+61 3 8761 1955	
Website	http://www.autoklene.com/msds/	
Email	Not Available	
Emergency telephone number		
Association / Organisation	Auto Klene Solutions	
Emergency telephone numbers	131 126 (Poisons Information Centre)	
Other emergency telephone numbers	0800 764 766 (New Zealand Poisons Information Centre)	
SECTION 2 Hazards identifie	cation	

## Classification of the substance or mixture

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

ChemWatch Hazard Ratings					
	MinMax_	i			
Flammability	0				
Toxicity	4	0 = Minimum			
Body Contact	3	1 = Low			
Reactivity	1	2 = Moderate			
Chronic	3	3 = High 4 = Extreme			

Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Metal Corrosion Category 1, Acute Toxicity (Inhalation) Category 1, Skin Corrosion/Irritation Category 1A, Serious Eye Damage Category 1, Carcinogenicity Category 1A, Acute Aquatic Hazard Category 3

Issue Date: 01/11/2024 Version No: 5.1.1.1 Print Date: 01/02/2025

Legend:

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)







Signal word	Page 1 contin	
Hazard statement(s)	Danigot	
H290	May be corrosive to metals.	
H330	atal if inhaled.	
H314	suses severe skin burns and eye damage.	
H350	May cause cancer.	
H402	Harmful to aquatic life.	
Precautionary statement(s) Pre	i i i i i i i i i i i i i i i i i i i	
P201	Obtain special instructions before use.	
P260	Do not breathe mist/vapours/spray.	
P271	Use only outdoors or in a well-ventilated area.	
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P281	Use personal protective equipment as required.	
P234	Keep only in original container.	
P273	Avoid release to the environment.	
Precautionary statement(s) Res	ponse	
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.	
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	
P308+P313	IF exposed or concerned: Get medical advice/attention.	
P310	Immediately call a POISON CENTER or doctor/physician.	
P320	Specific treatment is urgent (see advice on this label).	
Precautionary statement(s) Sto	rage	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	
P405	Store locked up.	
Precautionary statement(s) Dis	posal	
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	
7664-38-2	<30	phosphoric acid	
27176-87-0	<5	dodecylbenzenesulfonic acid	
5949-29-1	<5	citric acid, monohydrate	
Not Available	balance	Ingredients determined not to be hazardous	

## **SECTION 4 First aid measures**

Description of first aid measure	es .
Eye Contact	If this product comes in contact with the eyes:  ▶ 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 and lower lids.  ▶ 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.
Skin Contact	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.
Inhalation	<ul> <li>▶ If fumes or combustion products are inhaled remove from contaminated area.</li> <li>▶ Lay patient down. Keep warm and rested.</li> <li>▶ Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>▶ 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.</li> </ul>
	<ul> <li>▶ Transport to hospital, or doctor.</li> <li>▶ Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema.</li> <li>▶ Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs).</li> <li>▶ As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested.</li> <li>▶ Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered.</li> <li>This must definitely be left to a doctor or person authorised by him/her. (ICSC13719)</li> </ul>
	<ul> <li>▶ For advice, contact a Poisons Information Centre or a doctor at once.</li> <li>▶ Urgent hospital treatment is likely to be needed.</li> <li>▶ If swallowed do NOT induce vomiting.</li> </ul>

#### drink. Transport to hospital or doctor without delay. Indication of any immediate medical attention and special treatment needed

aspiration.

▶ Observe the patient carefully.

for phosphate salts intoxication:

• All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

▶ 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

Ingestion of large quantities of phosphate salts (over 1.0 grams for an adult) may cause an osmotic catharsis resulting in diarrhoea and probable abdominal cramps. Larger doses such as 4-8 grams will almost certainly cause these effects in everyone. In healthy individuals most of the ingested salt will be excreted in the faeces with the diarrhoea and, thus, not cause any systemic toxicity. Doses greater than 10 grams hypothetically may cause systemic toxicity.

If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent

- ▶ Treatment should take into consideration both anionic and cation portion of the molecule.
- All phosphate salts, except calcium salts, have a hypothetical risk of hypocalcaemia, so calcium levels should be monitored.

For acute or short term repeated exposures to strong acids:

Ingestion

- 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 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]

Version No: 5.1.1.1

Print Date: 01/02/2025 **SECTION 5 Firefighting measures** 

#### Extinguishing media

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

#### 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
lvice for firefighters	
ivios isi iliongiliois	
	Alert Fire Brigade and tell them location and nature of hazard.
	▶ Wear full body protective clothing with breathing apparatus.
	<ul> <li>Prevent, by any means available, spillage from entering drains or water course.</li> </ul>
Fire Fighting	▶ 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.
	▶ Non combustible.
	▶ Not considered to be a significant fire risk.
	▶ 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.
Fire/Explosion Hazard	May emit corrosive, poisonous fumes. May emit acrid smoke.
o. =xproorer rra=ara	Decomposition may produce toxic fumes of:
	carbon dioxide (CO2) phosphorus oxides (POx) sulfur
	oxides (SOx) other pyrolysis products typical of burning
	organic material.
HAZCHEM	2X

### **SECTION 6 Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

See section 8

## **Environmental precautions**

See section 12

## Methods and material for containment and cleaning up

<ul> <li>▶ Control personal contact with the substance, by using protective equipment.</li> <li>▶ Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>▶ Wipe up.</li> <li>▶ Place in a suitable, labelled container for waste disposal.</li> </ul>
Environmental hazard - contain spillage.  ▶ 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 any means available, spillage from entering drains or water course. ▶  Consider evacuation (or protect in place).  ▶ Stop leak if safe to do so.  ▶ Contain spill with sand, earth or vermiculite.  Personal Protective Equipment advice is contained in Section 8 of the SDS.

## **SECTION 7 Handling and storage**

#### Precautions for safe handling

Issue Date: 01/11/2024

#### ▶ DO NOT allow clothing wet with material to stay in contact with skin ▶

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.

#### Other information

Safe handling

- ▶ 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

#### ▶ DO NOT use aluminium or galvanised containers

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

For low viscosity materials

#### Suitable container

- ▶ 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

- ▶ is a medium-strong acid which produces violent reaction with bases ▶ may produce violent react when water is added to the concentrated form ▶ reacts violently with solutions containing ammonia or bleach, azo compounds, epoxides and other polymerisable compounds
- reacts, possibly violently with amines, aldehydes, alkanolamines, alcohols, alkylene oxides, amides, ammonia, ammonia hydroxide, calcium oxide, cyanides, epichlorohydrin, esters, halogenated organics, isocyanates, ketones, oleum, organic anhydrides, sodium tetraborate, sulfides, sulfuric acid, strong oxidisers, vinyl acetate ▶ forms explosive mixtures with nitromethane ▶ at elevated temperatures attacks many metals producing hydrogen gas • at room temperature does not attack stainless steel, copper or its alloys • attacks glass, ceramics, and some plastics, rubber and coatings • Reacts vigorously with alkalis
- ▶ Reacts with mild steel, galvanised steel / zinc producing hydrogen gas which may form an explosive mixture with air.
- Phosphates are incompatible with oxidising and reducing agents.
- Phosphates are susceptible to formation of highly toxic and flammable phosphine gas in the presence of strong reducing agents such as hydrides
- Partial oxidation of phosphates by oxidizing agents may result in the release of toxic phosphorus oxides.
- Segregate from alkalies, oxidising agents and chemicals readily decomposed by acids, i.e. cyanides, sulfides, carbonates.
- Avoid strong bases.

## **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	phosphoric acid	Phosphoric acid	1 mg/m3	3 mg/m3	Not Available	Not Available

Emergency Limits					
Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
phosphoric acid	Phosphoric acid		Not Available	Not Available	Not Available
dodecylbenzenesulfonic acid	Dodecylbenzene sulfonic acid; (Laurylbenzenesulfonic acid)		2 mg/m3	21 mg/m3	130 mg/m3
Ingredient	Original IDLH Revi		ised IDLH		
phosphoric acid	1,000 mg/m3 Not		Available		
dodecylbenzenesulfonic acid	Not Available Not Available				

citric acid, monohydrate Not Available Not Available

#### Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
citric acid, monohydrate	E	≤ 0.01 mg/m³	
Notes:	Occupational exposure handing is a process of assigning chamicals into specific categories or hands based on a chamical's notangy and the		

**Exposure controls** 

adverse health outcomes associated with exposure. The output of this process is an occupational exposure band (OEB), which corresponds to a range of exposure concentrations that are expected to protect worker health

# Appropriate engineering

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.

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.

#### Personal protection

controls









#### Eye and face protection

- ▶ Chemical goggles
- Full face shield may be required for supplementary but never for primary protection of eyes.
- ▶ 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

# 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

## Other protection

- Overalls.
- ▶ PVC Apron
- ▶ PVC protective suit may be required if exposure severe.
- Evewash unit.
  - ▶ Ensure there is ready access to a safety shower.

#### Recommended material(s)

#### GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of

#### Respiratory protection

Type AB-P Filter of sufficient capacity. (AS/NZS 1716 &

1715, EN 143:2000 & 149:2001,

ANSI Z88 or national equivalent)

#### "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the computergenerated selection:

Fallout Remover			
Material	СРІ		
NAT+NEOPR+NITRILE	А		
NATURAL RUBBER	A		
NATURAL+NEOPRENE	А		
NEOPRENE	А		
NEOPRENE/NATURAL	A		

NITRILE	A
NITRILE+PVC	А
PE	А
PVC	А
SARANEX-23	Α

- \* CPI Chemwatch Performance Index
- A: Best Selection
- B: Satisfactory; may degrade after 4 hours continuous immersion
- C: Poor to Dangerous Choice for other than short term immersion

NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

\* Where the glove is to be used on a short term, casual or infrequent basis, factors suchas "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

#### **SECTION 9 Physical and chemical properties**

Where the concentration of gas/particulates in the breathing zone, approaches or exceeds the "Exposure Standard" (or ES), respiratory protection is required.

Version No: 5.1.1.1

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 ^

<sup>^ -</sup> 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)

Issue Date: 01/11/2024

Print Date: 01/02/2025

- ▶ 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

Appearance	Clear pale yellow liquid; mixes with water.		
Physical state	Liquid	Relative density (Water = 1)	1.1
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Applicable
pH (as supplied)	1.8	Decomposition temperature	Not Available
lelting 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
pper Explosive Limit %)	Not Applicable	Surface Tension (dyn/cm or mN/m)	Not Available
ower Explosive Limit %)	Not Applicable	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Miscible	pH as a solution (1%)	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**

Inhaled	health of the individual.	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.  Corrosive acids can cause irritation of the respiratory tract, with coughing, choking and mucous membrane damage. There may be dizziness,		
	headache, nausea and weakness. Not normally a hazard due to non-volatile nature of product			
Ingestion	The material can produce chemical burns within the oral cavity and ga Accidental ingestion of the material may be damaging to the health of Ingestion of acidic corrosives may produce burns around and in the mo			
Skin Contac	Open cuts, abraded or irritated skin should not be exposed to this mate Skin contact with acidic corrosives may result in pain and burns; these	The material can produce chemical burns following direct contact with the skin.  Open cuts, abraded or irritated skin should not be exposed to this material  Skin contact with acidic corrosives may result in pain and burns; these may be deep with distinct edges and may heal slowly with the formation of scar tissue.  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 any external damage is suitably protected.		
Еу	The material can produce chemical burns to the eye following direct could applied to the eyes, this material causes severe eye damage.  Direct eye contact with acid corrosives may produce pain, tears, sensitives.	ontact. Vapours or mists may be extremely irritating. tivity to light and burns. Mild burns of the epithelia generally recover rapidly and comple		
Chronic	Substance accumulation, in the human body, may occur and may caus is more likely to cause a sensitisation reaction in some persons compa Repeated or prolonged exposure to acids may result in the erosion of often occurs.  Prolonged or repeated skin contact may cause degreasing, followed by	Studies show that inhaling this substance for over a long period (e.g. in an occupational setting) may increase the risk of cancer.  Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. There is some is more likely to cause a sensitisation reaction in some persons compared to the general population.  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 often occurs.  Prolonged or repeated skin contact may cause degreasing, followed by drying, cracking and skin inflammation.  Sodium phosphate dibasic can cause stones in the kidney, loss of mineral from the bones and loss of thyroid gland function.		
Fallout Remove		IRRITATION		
	Not Available	Not Available		
	TOXICITY	IRRITATION		
	Dermal (rabbit) LD50: >1260 mg/kg <sup>[2]</sup>	Eye (rabbit): 119 mg - SEVERE		
phosphoric acid	Inhalation(Rat) LC50; 0.026 mg/L4hrs <sup>[2]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>		
	Oral(Rat) LD50; 0.001 mg/kg <sup>[2]</sup>	Skin (rabbit):595 mg/24h - SEVERE		
		Skin: adverse effect observed (corrosive) <sup>[1]</sup>		
	TOXICITY	IRRITATION		
dodecylbenzenesulfonic acid		Eye: adverse effect observed (irritating) <sup>[1]</sup>		
	Oral(Rat) LD50; 500-2000 mg/kg <sup>[2]</sup>	Skin: adverse effect observed (corrosive) <sup>[1]</sup>		
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>		
citric acid,	TOXICITY	IRRITATION		
monohydrate	Oral(Mouse) LD50; 5790 mg/kg <sup>[2]</sup>	Eye (rabbit): 5 mg/30s mild		
Legend	: 1. Value obtained from Europe ECHA Registered Substances - Acute a Toxic Effect of chemical Substances	toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data e		
PHOSPHORIC ACI	The meaterial many course course alian imitation after mealers and as your	ed in literature search. nced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivated exposure and may produce on contact skin redness, swelling, the production of ve		
DODECYLBENZENESULFONI ACI	C Linear alkyl benzene sulfonates are derived from strong corrosive acid weakness and may lead to death. They may also react with surfaces	nage to the lung including reduced lung function.  sosure and may produce on contact skin redness, swelling, the production of vesicles, s  ds. Animal testing has shown they can cause skin reactions, eye irritation, sluggishness  of the mouth and intestines, depending on the concentration exposed to. There is no ex		

ADI: 2.5 mg/kg/day NOEL: 250 mg/kg/day

 Chemwatch: 5270-60
 Page 9 of 14
 Issue Date: 01/11/2024

 Version No: 5.1.1.1
 Print Date: 01/02/2025

# PHOSPHORIC ACID & DODECYLBENZENESULFONIC ACID

For acid mists, aerosols, vapours

Test results suggest that eukaryotic cells are susceptible to genetic damage when the pH falls to about 6.5. Cells from the respiratory tract have not been ex secretion may protect the cells of the airway from direct exposure to inhaled acidic mists (which also protects the stomach lining from the hydrochloric acid s

PHOSPHORIC ACID & DODECYLBENZENESULFONIC ACID & CITRIC ACID, MONOHYDRATE

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as real (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airway individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosi airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic in RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely rever disorder is characterized by difficulty breathing, cough and mucus production.

DODECYLBENZENESULFONIC
ACID & CITRIC ACID,

The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivi

MONOHYDRATE				
Acute Toxicity			Carcinogenicity	
Skin Irritation/Corrosion	<b>~</b>	Reproductivity	x	
Serious Eye Damage/Irritation	<b>✓</b>	STOT - Single Exposure	X	
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure		
Mutagenicity	×	Aspiration Hazard	×	

Legend:

X – Data either not available or does not fill the criteria for classification

🛩 – Data available to make classification

#### **SECTION 12 Ecological information**

#### **Toxicity**

				_
Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available
Endpoint	Test Duration (hr)	Species	Value	Source
LC50	96	Fish	-43- 72mg/L	4
EC50	48	Crustacea	>5.62mg/L	2
EC50	72	Algae or other aquatic plants	77.9mg/L	2
NOEC	48	Crustacea	5.62mg/L	2
Endpoint	Test Duration (hr)	Species	Value	Source
LC50	96	Fish	1.67mg/L	2
EC50	48	Crustacea	2.5mg/L	2
EC50	96	Algae or other aquatic plants	12.086mg/L	2
NOEC	720	Crustacea	0.046mg/L	2
Endpoint	Test Duration (hr)	Species	Value	Source
LC50	96	Fish	>100mg/L	2
EC50	48	Crustacea	187.35mg/L	2
EC100	Not Available	Crustacea	120mg/L	2
NOEC	96	Fish	100mg/L	2
	Endpoint LC50 EC50 NOEC  Endpoint LC50 EC50 NOEC  Endpoint LC50 EC50 NOEC  Endpoint LC50 EC50 NOEC	Not Available         Not Available           Endpoint         Test Duration (hr)           LC50         96           EC50         48           EC50         72           NOEC         48           Endpoint         Test Duration (hr)           LC50         96           EC50         48           EC50         96           NOEC         720           Endpoint         Test Duration (hr)           LC50         96           EC50         48           EC50         48           EC100         Not Available	Not Available         Not Available           Endpoint         Test Duration (hr)         Species           LC50         96         Fish           EC50         48         Crustacea           EC50         72         Algae or other aquatic plants           NOEC         48         Crustacea           Endpoint         Test Duration (hr)         Species           LC50         96         Fish           EC50         48         Crustacea           RC50         96         Algae or other aquatic plants           NOEC         720         Crustacea           Endpoint         Test Duration (hr)         Species           Endpoint         Test Duration (hr)         Species           EC50         48         Crustacea           EC50         48         Crustacea           EC100         Not Available         Crustacea	Not Available         Not Available         Not Available         Not Available           Endpoint         Test Duration (hr)         Species         Value           LC50         96         Fish         -43-72mg/L           EC50         48         Crustacea         >5.62mg/L           EC50         72         Algae or other aquatic plants         77.9mg/L           NOEC         48         Crustacea         5.62mg/L           Endpoint         Test Duration (hr)         Species         Value           LC50         96         Fish         1.67mg/L           EC50         48         Crustacea         2.5mg/L           NOEC         720         Crustacea         0.046mg/L           Endpoint         Test Duration (hr)         Species         Value           Endpoint         Test Duration (hr)         Species         Value           Ec50         96         Fish         >100mg/L           Ec50         48         Crustacea         187.35mg/L           EC50         48         Crustacea         187.35mg/L           EC100         Not Available         Crustacea         120mg/L

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWI. V3.12 (QSAR) - Aquatic Toxicity Data (Estimated) 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

On the basis of available evidence concerning either toxicity, persistence, potential to accumulate and or observed environmental fate and behaviour, the material may present a danger, immediate or long-term and /or delayed, to the structure and/ or functioning of natural ecosystems.

Harmful 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.

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

#### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
phosphoric acid	HIGH	HIGH
dodecylbenzenesulfonic acid	HIGH	HIGH
citric acid, monohydrate	LOW	LOW

### Bioaccumulative potential

Ingredient	Bioaccumulation
phosphoric acid	LOW (LogKOW = -0.7699)
dodecylbenzenesulfonic acid	LOW (BCF = 140)
citric acid, monohydrate	LOW (LogKOW = -1.64)

#### Mobility in soil

Ingredient	Mobility
phosphoric acid	HIGH (KOC = 1)
dodecylbenzenesulfonic acid	LOW (KOC = 16830)
citric acid, monohydrate	LOW (KOC = 10)

#### **SECTION 13 Disposal considerations**

#### Waste treatment methods

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- ▶ Reduction
- ▶ Reuse
- ▶ Recycling
- ▶ Disposal (if all else fails)

#### Product / Packaging disposal

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ 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 (after admixture with suitable combustible material).
- ▶ 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** NO **HAZCHEM** 2X Land transport (ADG) **UN** number 1760 **UN proper shipping** CORROSIVE LIQUID, N.O.S. (contains phosphoric acid and dodecylbenzenesulfonic acid) name Transport hazard Class 8 class(es)

01011140. 0111111				T TIME Bato. O MODIZUZO
	Subrisk Not Ap	pplicable		
Packing group	III			
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions Limited quantity	223 274 5 L		
Air transport (ICAO-IATA / DGR)				
UN number	1760			
UN proper shipping name	Corrosive liquid, n.o.	.s. * (contains phosphoric acid and dode	cylbenzenesulfonic acid)	
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	8 Not Applicable		
Packing group	III	III		
Environmental hazard	Not Applicable			
Special precautions for user	Special provisions  Cargo Only Packir  Cargo Only Maxim  Passenger and Ca	ng Instructions	A3 A803 856 60 L 852	
		argo Maximum Qty / Pack  Ind Cargo Limited Quantity Packing	5 L Y841	
		Instructions argo Limited Maximum Qty / Pack	1L	
Sea transport (IMDG-Code / GG	-			
UN number	1760			
UN proper shipping name	CORROSIVE LIQUII	D, N.O.S. (contains phosphoric acid and	dodecylbenzenesulfonic acid)	
Transport hazard class(es)		8 Not Applicable		
Packing group	III			
Transport in bulk according to A	Annex II of MARPOL	and the IBC code		

Not Applicable

phosphoric acid

dodecylbenzenesulfonic acid citric acid, monohydrate

Not Available Not Available

Not Available

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code		
Product name	Group	
phosphoric acid	Not Available	
dodecylbenzenesulfonic acid	Not Available	
citric acid, monohydrate	Not Available	
Transport in bulk in accordance with the ICG Code		
Product name	Ship Type	

Continued...

Version No: 5.1.1.1

Issue Date: **01/11/2024**Print Date: **01/02/2025** 

Environmental hazard	Not Applicable				
Special precautions for user	EMS Number Special provisions	F-A , S-B 223 274			
	Limited Quantities	5 L			

#### **SECTION 15 Regulatory information**

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

## phosphoric acid 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 5

Australian Inventory of Industrial Chemicals (AIIC)

#### dodecylbenzenesulfonic acid is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

#### citric acid, monohydrate is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

#### **National Inventory Status**

National Inventory	Status		
Australia - AIIC / Australia Non-Industrial Use	Yes		
Canada - DSL	Yes		
Canada - NDSL	No (phosphoric acid; dodecylbenzenesulfonic acid; citric acid, monohydrate)		
China - IECSC	Yes		
Europe - EINEC / ELINCS / NLP	Yes		
Japan - ENCS	Yes		
Korea - KECI	Yes		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	Yes		
Vietnam - NCI	Yes		
Russia - ARIPS	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 and are not exempt from listing(see specific ingredients in brackets)		

#### **SECTION 16 Other information**

Revision Date	01/11/2019			
Initial Date	30/08/2017			
SDS Version Summary				
Version	Issue Date	Sections Updated		
2.1.1.1	30/08/2017	Fire Fighter (fire/explosion hazard)		
5.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification		

Chemwatch: **5270-60** Page **13** of **14** Issue Date: **01/11/2024** 

**Fallout Remover** 

Print Date: 01/02/2025

#### Other information

Version No: 5.1.1.1

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.

Chemwatch: **5270-60** Page **14** of **14** Issue Date: **01/11/2024** 

Version No: 5.1.1.1

Print Date: 01/02/2025

end of SDS