## **AK70 Carbon Coat Auto Klene Solutions**

Chemwatch: **5250-76** Version No: **5.1.1.1** 

Safety Data Sheet according to WHS and ADG requirements

Chamwatch Hazard Mort Codo: 3

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	AK70 Carbon Coat
Chemical Name	Not Applicable
Synonyms	Not Available
Proper shipping name	FLAMMABLE LIQUID, N.O.S. (contains ethylbenzene, xylene and isopropanol)
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	Use according to manufacturer's directions.
Details of the supplier of the sa	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)
<b>SECTION 2 Hazards identifi</b>	cation

# Classification of the substance or mixture

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

## ChemWatch Hazard Ratings



Poisons Schedule	Not Applicable
Classification <sup>[1]</sup>	Flammable Liquid Category 2, Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Carcinogenicity Category 2, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation), Specific target organ toxicity - single exposure Category 3 (narcotic effects),  Aspiration Hazard Category 1, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

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Signal word

### Hazard statement(s)

	Page 1 continued.
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H304	May be fatal if swallowed and enters airways.
H411	Toxic to aquatic life with long lasting effects.
AUH019	May form explosive peroxides.
Precautionary statement(s) Prev	vention
P201	Obtain special instructions before use.
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P271	Use only outdoors or in a well-ventilated area.
P281	Use personal protective equipment as required.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/intrinsically safe equipment.
P242	Use only non-sparking tools.
Precautionary statement(s) Res	ponse
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P321	Specific treatment (see advice on this label).
P331	Do NOT induce vomiting.
P362	Take off contaminated clothing and wash before reuse.
P370+P378	In case of fire: Use alcohol resistant foam or normal protein foam for extinction.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Precautionary statement(s) Stor	rage
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
Precautionary statement(s) Disp	posal
P501	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.
SECTION 3 Composition / ir	nformation on ingredients

## Substances

See section below for composition of Mixtures

### Mixtures

CAS No	%[weight]	Name
67-63-0	<70	isopropanol
8052-41-3.	<10	Stoddard Solvent

Page 3 of 16 Chemwatch: 5250-76 Issue Date: 01/11/2024 Version No: 5.1.1.1 Print Date: 01/02/2025 111-84-2 <5 n-nonane 1330-20-7 <5 xvlene

ethylbenzene

proprietary ingredients

#### **SECTION 4 First aid measures**

<5

<10

100-41-4

Not Available

Description of first aid measure	es s
Eye Contact	If this product comes in contact with the eyes:  ► Wash out immediately with fresh 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.  ► Seek medical attention without delay; if pain persists or recurs seek medical attention.  ► Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  ▶ Immediately remove all contaminated clothing, including footwear.  ▶ Flush skin and hair with running water (and soap if available).  ▶ Seek medical attention in event of irritation.
Inhalation	▶ 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.
	<ul> <li>▶ Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained.</li> <li>Perform CPR if necessary.</li> <li>▶ Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>▶ If swallowed do NOT induce vomiting.</li> <li>▶ If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>▶ Observe the patient carefully.</li> <li>▶ Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>▶ Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink. ▶ Seek medical advice.</li> <li>▶ Avoid giving milk or oils.</li> <li>▶ Avoid giving alcohol.</li> <li>▶ If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of</li> </ul>

#### vomitus Indication of any immediate medical attention and special treatment needed

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. For acute or short term repeated exposures to isopropanol:

- Rapid onset respiratory depression and hypotension indicates serious ingestions that require careful cardiac and respiratory monitoring together with immediate intravenous
- ▶ Rapid absorption precludes the usefulness of emesis or lavage 2 hours post-ingestion. Activated charcoal and cathartics are not clinically useful. Ipecac is most useful when given 30 mins. post-ingestion.
- ▶ There are no antidotes.
- ▶ Management is supportive. Treat hypotension with fluids followed by vasopressors.
- ▶ Watch closely, within the first few hours for respiratory depression; follow arterial blood gases and tidal volumes.
- ▶ Ice water lavage and serial haemoglobin levels are indicated for those patients with evidence of gastrointestinal bleeding.

For acute or short term repeated exposures to xylene:

- ▶ Gastro-intestinal absorption is significant with ingestions. For ingestions exceeding 1-2 ml (xylene)/kg, intubation and lavage with cuffed endotracheal tube is recommended. The use of charcoal and cathartics is equivocal.
- ▶ Pulmonary absorption is rapid with about 60-65% retained at rest.
- ▶ Primary threat to life from 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 or pCO2 > 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. BIOLOGICAL EXPOSURE INDEX - BEI These represent the determinants observed in specimens collected from a healthy worker exposed at the Exposure Standard (ES or TLV):

Determinant Index Sampling Time Comments Methylhippu-ric acids in urine 1.5 gm/gm creatinine End of shift

> 2 mg/min Last 4 hrs of shift

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### **SECTION 5 Firefighting measures**

#### Extinguishing media

- Alcohol stable 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
e for firefighters	
	▶ Alert Fire Brigade and tell them location and nature of hazard.
	May be violently or explosively reactive.
Fire Fighting	<ul> <li>▶ Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> </ul>
i ne i ignung	Consider evacuation (or protect in place).
	Fight fire from a safe distance, with adequate cover.
	▶ If safe, switch off electrical equipment until vapour fire hazard removed.
	▶ Liquid and vapour are highly flammable.
	▶ Severe fire hazard when exposed to heat, flame and/or oxidisers.
	▶ Vapour may travel a considerable distance to source of ignition.
	► Heating may cause expansion or decomposition leading to violent rupture of
	containers. ▶ On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion
	products include:
Fire/Explosion Hazard	carbon dioxide (CO2)
	hydrogen chloride
	phosgene
	hydrogen fluoride other pyrolysis products typical of
	burning organic material.  WARNING: Long standing in contact with air and light may result in the formation
	of potentially explosive peroxides.

#### **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

	V 1
Minor Spills	<ul> <li>▶ Remove all ignition sources.</li> <li>▶ Clean up all spills immediately.</li> <li>▶ Avoid breathing vapours and contact with skin and eyes.</li> <li>▶ Control personal contact with the substance, by using protective equipment.</li> <li>▶ Contain and absorb small quantities with vermiculite or other absorbent material.</li> <li>▶ Wipe up.</li> <li>▶ Collect residues in a flammable waste container.</li> </ul>
Major Spills	<ul> <li>▶ Clear area of personnel and move upwind.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ May be violently or explosively reactive.</li> <li>▶ Wear breathing apparatus plus protective gloves.</li> <li>▶ Prevent, by any means available, spillage from entering drains or water course.</li> <li>▶ Consider evacuation (or protect in place).</li> <li>▶ No smoking, naked lights or ignition sources.</li> </ul>
Personal Protective Equipment adv	ice is contained in Section 8 of the SDS.

### **SECTION 7 Handling and storage**

ecautions for safe handling	
Safe handling	<ul> <li>▶ DO NOT allow clothing wet with material to stay in contact with skin ▶</li> <li>Avoid all personal contact, including inhalation.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ Use in a well-ventilated area.</li> <li>▶ Prevent concentration in hollows and sumps.</li> <li>▶ DO NOT enter confined spaces until atmosphere has been checked.</li> <li>▶ Avoid smoking, naked lights, heat or ignition sources.</li> <li>▶ When handling, DO NOT eat, drink or smoke.</li> </ul>

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- ▶ Store in original containers in approved flame-proof area.
- No smoking, naked lights, heat or ignition sources
- ▶ DO NOT store in pits, depressions, basements or areas where vapours may be trapped.

#### Other information

Suitable container

- ▶ Keep containers securely sealed. ▶ Store away from incompatible materials in a cool, dry well ventilated area.
- ▶ 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 ▶

Packing as supplied by manufacturer.

- ▶ Plastic containers may only be used if approved for flammable liquid.
- ▶ Check that containers are clearly labelled and free from leaks.
- For low viscosity materials (i): Drums and jerry cans must be of the non-removable head type. (ii): 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)
  - ▶ For manufactured product having a viscosity of at least 250 cSt. (23 deg. C)
  - ▶ Manufactured product that requires stirring before use and having a viscosity of at least 20 cSt (25 deg. C): (i) Removable head packaging; (ii) Cans with friction closures and (iii) low pressure tubes and cartridges may be used.
  - ▶ Where combination packages are used, and the inner packages are of glass, there must be sufficient inert cushioning material in contact with inner and outer packages
  - ▶ In addition, where inner packagings are glass and contain liquids of packing group I there must be sufficient inert absorbent to absorb any spillage, unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.

Storage incompatibility ▶ 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	isopropanol	Isopropyl alcohol	400 ppm / 983 mg/m3	1230 mg/m3 / 500 ppm	Not Available	Not Available
Australia Exposure Standards	Stoddard Solvent	White spirits	790 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	n-nonane	Nonane	200 ppm / 1050 mg/m3	Not Available	Not Available	Not Available
Australia Exposure Standards	xylene	Xylene (o-, m-, p- isomers)	80 ppm / 350 mg/m3	655 mg/m3 / 150 ppm	Not Available	Not Available
Australia Exposure Standards	ethylbenzene	Ethyl benzene	100 ppm / 434 mg/m3	543 mg/m3 / 125 ppm	Not Available	Not Available

#### **Emergency Limits**

Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3	
isopropanol	Isopropyl alcohol	Isopropyl alcohol		2000* ppm	12000** ppm	
Stoddard Solvent	Stoddard solvent; (Mineral spirits, 85% nona	Stoddard solvent; (Mineral spirits, 85% nonane and 15% trimethyl benzene)			29500** mg/m3	
n-nonane	Nonane; (Shellsol 140)	Nonane; (Shellsol 140)			5,000 ppm	
xylene	Xylenes	Xylenes			Not Available	
ethylbenzene	Ethyl benzene	hyl benzene		Not Available	Not Available	
Ingredient	Original IDLH	Revised II	sed IDLH			
isopropanol	2,000 ppm	Not Availa	Not Available			
Stoddard Solvent	20,000 mg/m3	Not Availa	lot Available			
n-nonane	Not Available	Not Availa	Not Available			
xylene	900 ppm	Not Availa	Not Available			
ethylbenzene	800 ppm	Not Availa	Not Available			
vnosura controls						

#### 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:

#### Appropriate engineering controls

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.

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#### Personal protection









#### Eve and face protection

- ▶ Safety glasses with side shields.
- ▶ Chemical goggles
- ▶ 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

- Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

#### Hands/feet protection

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
- ▶ Eyewash unit.
- ▶ Ensure there is ready access to a safety shower.

#### Recommended material(s)

Respiratory	protection
-------------	------------

GLOVE SELECTION INDEXType A Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 43:2000 & 149:2001,

Material	СРІ	
BUTYL	С	
BUTYL/NEOPRENE	С	
HYPALON	С	
NAT+NEOPR+NITRILE	С	
NATURAL RUBBER	С	
NATURAL+NEOPRENE	С	
NEOPRENE	С	
NEOPRENE/NATURAL	С	
NITRILE	С	
NITRILE+PVC	С	

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

ANSI Z88 or national equivalent)

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

Where the concentration of gas/particulates in the breathing zone, approaches or The effect(s) of the following substance(s) are taken into account in the computer exceeds the "Exposure Standard" (or ES), respiratory protection is required. generated selection:

AK70 Carbon Coat protection varies with Type of filter.

Degree of protection varies with both face-piece and Class of filter; the nature of

#### ^ - 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)

PE/EVAL/PE	С

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PVA	С			
PVC	С			
PVDC/PE/PVDC	С			
TEFLON	С			
VITON	С			

<sup>\*</sup> CPI - Chemwatch Performance Index

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

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

Appearance	Clear highly flammable liquid with a solvent odour; does not mix	with water.	
Physical state	Liquid	Relative density (Water = 1)	0.75-0.90
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
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)	11.7 (isopropanol)	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Ipper Explosive Limit %)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
ower Explosive Limit %)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
(kPa)			

### **SECTION 10 Stability and reactivity**

Reactivity	See section 7
Chemical stability	<ul> <li>▶ Unstable in the presence of incompatible materials.</li> <li>▶ Product is considered stable.</li> <li>▶ Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion

<sup>\*</sup> 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.

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Hazardous decomposition products

See section 5

#### **SECTION 11 Toxicological information**

#### Information on toxicological effects

The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage. 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

Inhalation hazard is increased at higher temperatures.

#### Inhaled

Concentrated nonane vapours may cause irritation of the nose and throat, headache, drowsiness, dizziness, confusion, nausea, tremors, incoordination and difficulty in breathing. Very high concentrations may cause unconsciousness and death. The odour of nitrous oxides is not easily detected.

Inhalation of high concentrations of gas/vapour causes lung irritation with coughing and nausea, central nervous depression with headache and dizziness, slowing of reflexes, fatigue and inco-ordination.

Headache, fatigue, tiredness, irritability and digestive disturbances (nausea, loss of appetite and bloating) are the most common symptoms of xylene overexposure. Injury to the heart, liver, kidneys and nervous system has also been noted amongst workers.

	The odour of isopropanol may give some warning of exposure, but odour fatigue may occur. Inhalation of isopropanol may produce irritation of
	the nose and throat with sneezing, sore throat and runny nose.  Xylene is a central nervous system depressant
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.  Ingestion may result in nausea, abdominal irritation, pain and vomiting
Skin Contact	The material may cause mild but significant inflammation of the skin either following direct contact or after a delay of some time. Repeated exposure can cause contact dermatitis which is characterised by redness, swelling and blistering. Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.  Most liquid alcohols appear to act as primary skin irritants in humans. Significant percutaneous absorption occurs in rabbits but not apparently in man. Open cuts, abraded or irritated skin should not be exposed to this material 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.  511ipa
Еуе	This material can cause eye irritation and damage in some persons.  Isopropanol vapour may cause mild eye irritation at 400 parts per million. Splashes may cause severe eye irritation, possible burns to the cornea and eye damage. Eye contact may cause tearing and blurring of vision.
	There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment.  Repeated or long-term occupational exposure is likely to produce cumulative health effects involving organs or biochemical systems.  Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems.  There is some evidence from animal testing that exposure to this material may result in toxic effects to the unborn baby.  Implantation studies in rats show that paraffin oils may cause tumours. As a general rule, the highly refined paraffins are believed to contain less suspect polyaromatic hydrocarbons than less refined grades or waxes derived from napthenic base-stocks.
Chronic	Women exposed to xylene in the first 3 months of pregnancy showed a slightly increased risk of miscarriage and birth defects. Evaluation of workers chronically exposed to xylene has demonstrated lack of genetic toxicity.  Long term, or repeated exposure of isopropanol may cause inco-ordination and tiredness.  Repeated inhalation exposure to isopropanol may produce sleepiness, inco-ordination and liver degeneration. Animal data show developmental effects or at exposure levels that produce the effects in adult animals. Isopropanol does not cause genetic damage.

at exposure levels that produce toxic effects in adult animals. Isopropanol does not cause genetic damage.

There are inconclusive reports of human sensitisation from skin contacts with isopropanol. Chronic alcoholics are more tolerant of the whole-body effects of

Animal testing showed the chronic exposure did not produce reproductive effects.

Exposure to the material for prolonged periods may cause physical defects in the developing embryo (teratogenesis).

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	TOVICITY	IDDITATION
AK70 Carbon Coat	TOXICITY	IRRITATION
	Not Available	Not Available
	TOXICITY	IRRITATION
isopropanol	Dermal (rabbit) LD50: 12.792 mg/kg <sup>[1]</sup>	Eye (rabbit): 10 mg - moderate
	Inhalation(Mouse) LC50; =27.2 mg/l4hrs <sup>[2]</sup>	Eye (rabbit): 100 mg - SEVERE
	Oral(Rat) LD50; 0.006 mg/kg <sup>[1]</sup>	Eye (rabbit): 100mg/24hr-moderate
		Skin (rabbit): 500 mg - mild

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		Till Bate. VIVIII
	тохісіту	IRRITATION
	Dermal (rabbit) LD50: >3000 mg/kg <sup>[1]</sup>	Eye (hmn) 470 ppm/15m irrit.
	Oral(Rat) LD50; >5000 mg/kg <sup>[1]</sup>	Eye (rabbit) 500 mg/24h moderate
Stoddard Solvent		Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
		Skin: adverse effect observed (irritating) <sup>[1]</sup>
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	тохісіту	IRRITATION
	Dermal (rabbit) LD50: >2000 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
n-nonane	Inhalation(Rat) LC50; 17 mg/L4hrs <sup>[2]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral(Rat) LD50; >5000 mg/kg <sup>[1]</sup>	
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >1700 mg/kg <sup>[2]</sup>	Eye (human): 200 ppm irritant
		Eye (rabbit): 5 mg/24h SEVERE
	Inhalation(Rat) LC50; 5922 ppm4hrs <sup>[1]</sup>	Eye (rabbit): 87 mg mild
xylene	Oral(Rat) LD50; 8.70 mg/kg <sup>[1]</sup>	
		Eye: adverse effect observed (irritating) <sup>[1]</sup>
		Skin (rabbit):500 mg/24h moderate
		Skin: adverse effect observed (irritating) <sup>[1]</sup>
	тохісіту	IRRITATION
ethylbenzene	Dermal (rabbit) LD50: ~15.433 mg/kg <sup>[1]</sup>	Eye (rabbit): 500 mg - SEVERE
<b>,</b>	Inhalation(Rat) LC50; =17.2 mg/l4hrs <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral(Rat) LD50; ~3523 mg/kg <sup>[2]</sup>	Skin (rabbit): 15 mg/24h mild
		Skin: no adverse effect observed (not irritating) $^{[1]}$
Legend:	Nalue obtained from Europe ECHA Registered Substances - Acute extracted from RTECS - Register of Toxic Effect of chemical Substan	a toxicity 2.* Value obtained from manufacturer's SDS. Unless otherwise specified data uces
ISOPROPANOL	nervous system and drowsiness. Few have reported skin irritation. It	to the skin. Prolonged high dose exposure may also produce depression of the central can be absorbed from the skin or when inhaled. Intentional swallowing is common ting, breathing difficulty, nausea, vomiting and headache. In the absence of lamage the kidneys.
0700040	are toxic to the nervous system. This product contains toluene, and a contains ethyl benzene and naphthalene, from which animal testing s	te myeloid leukaemia, and n-hexane, which can be metabolized to compounds which inimal studies suggest high concentrations of toluene lead to hearing loss. This product shows evidence of tumour formation. auses tumours of the liver and kidney; these are however not considered to be relevant
STODDAR D SOLVENT	studies in living human subjects (such as in petrol service station atte Reproductive toxicity: Animal studies show that high concentrations of developmental toxicity to the nervous system of the foetus. Other stu	of toluene (>0.1%) can cause developmental effects such as lower birth weight and dies show no adverse effects on the foetus.  If the skin which can lead to skin inflammation and may make the skin more
N-NONANE	inversely proportional to the carbon chain length, with little absorptior oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo The major classes of hydrocarbons are well absorbed into the gastro ingested in association with fats in the diet. Some hydrocarbons may hydrocarbons partly separate from fats and undergo metabolism in the hydrocarbon that becomes available to be deposited unchanged in particular testing showed exposure to high concentrations (over 3500 p	intestinal tract in various species. In many cases, the hydrophobic hydrocarbons are appear unchanged as in the lipoprotein particles in the gut lymph, but most be gut cell. The gut cell may play a major role in determining the proportion of
XYLENE	Reproductive effector in rats	

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#### Liver changes, utheral tract, effects on fertility, foetotoxicity, specific developmental abnormalities (musculoskeletal system) recorded. Ethylbenzene is readily absorbed when inhaled, swallowed or in contact with the skin. It is distributed throughout the body, and passed out through urine. It may irritate the skin, eyes and may cause hearing loss if exposed to high doses. Long Term exposure may cause damage to the kidney, liver and lungs, including a tendency to cancer formation, according to animal testing. There is no research on its effect on sex organs and unborn babies NOTE: Substance has been shown to be mutagenic in at least one assay, or belongs to a family of chemicals producing damage or change to cellular **ETHYLBENZENE** DNA. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans. 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 reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to ISOPROPANOL & severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or N-NONANE asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production. ISOPROPANOL & The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, XYLENE & scaling and thickening of the skin. **ETHYL BENZENE** The substance is classified by IARC as Group 3: ISOPROPANOL NOT classifiable as to its carcinogenicity to humans. & XYLENE Evidence of carcinogenicity may be inadequate or limited in animal testing. The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce XYLENE & ETHYLBENZENE conjunctivitis. Carcinogenicity **Acute Toxicity** Skin Irritation/Corr Reproductivity × osion Serious Eye STOT - Single Exposure Damage/Irritation Respiratory or Skin sensitisation STOT - Repeated Exposure × Mutagenicity **Aspiration Hazard** ×

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

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

oxicity					
AK70 Carbon Coat	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	>1400- mg/L	4
isopropan ol	EC50	48	Crustacea	7550mg/L	4
0.	EC50	96	Algae or other aquatic plants	>1000mg/L	1
	EC10	168	Algae or other aquatic plants	12.44-mg/L	4
	NOEC	5760	Fish	<0.02-mg/L	4
	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	2.2-mg/L	4
	EC50	48	Crustacea	1.4mg/L	2
Stoddard Solvent	EC50	72	Algae or other aquatic plants	3.7mg/L	2
	NOEL	96	Algae or other aquatic plants	0.2mg/L	2
	LC50	96	Fish	0.14mg/L	2
	EC50	96	Algae or other aquatic plants	0.277mg/L	2

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NOEC	720	Fish	0.02mg/L	2
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n-nonane	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	1.125mg/L	2
	EC50	48	Crustacea	ca.0.2mg/L	2
	EC50	72	Algae or other aquatic plants	1.098mg/L	2
	NOEC	504	Crustacea	0.17mg/L	2

xylene	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	0.0013404- mg/L	4
	EC50	48	Crustacea	1.8mg/L	2
	EC50	72	Algae or other aquatic plants	3.2mg/L	2
	NOEL	72	Not Available	0.01-mg/L	4

	Endpoint	Test Duration (hr)	Species	Value	Source
	LC50	96	Fish	-0.0039- 0.0047mg/L	4
ethylbenze ne	EC50	48	Crustacea	-1.37-4.4mg/L	4
ile	EC50	96	Algae or other aquatic plants	-1.7-7.6mg/L	4
	BCF	88	Not Available	39.2mg/L	4
	NOEC	30	Fish	0.44mg/L	4

Legend:

Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 3. EPIWIN Suite 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

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.

### Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
isopropanol	LOW (Half-life = 14 days)	LOW (Half-life = 3 days)
n-nonane	LOW	LOW
xylene	HIGH (Half-life = 360 days)	LOW (Half-life = 1.83 days)
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)

#### Bioaccumulative potential

Ingredient	Bioaccumulation	
isopropanol	LOW (LogKOW = 0.05)	
Stoddard Solvent	LOW (BCF = 159)	
n-nonane	HIGH (LogKOW = 4.7613)	
xylene	MEDIUM (BCF = 740)	
ethylbenzene	LOW (BCF = 79.43)	

### Mobility in soil

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Ingredient	Mobility
isopropanol	HIGH (KOC = 1.06)
n-nonane	LOW (KOC = 934.6)
ethylbenzene	LOW (KOC = 517.8)

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

#### Waste treatment methods

- ▶ 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.

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:

## Product / Packaging disposal

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

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.
- ▶ Dispose of 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. Observe all label safeguards until containers are cleaned and destroyed.

#### **SECTION 14 Transport information**

name

Labels Required				
	3	<b>&gt;</b>		
Marine Pollutant				
HAZCHEM	•3YE			
Land transport (ADG)				
UN number	1993			
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (contains ethylbenzene, xylene and isopropanol)			
Transport hazard class(es)	Class Subrisk	3 Not App	olicable	
Packing group	II			
Environmental hazard	Environmentally hazardous			
Special precautions for user	Special 274 provisions Limited quantity 1 L			
Air transport (ICAO-IATA / DGR)				
UN number	1993			
UN proper shipping	Flammable liquid, n.o.s. * (contains ethylbenzene, xylene and isopropanol)			

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	ICAO/IATA Class	3		
Transport hazard class(es)	ICAO / IATA Subrisk	Not Applicable		
	ERG Code	3H		
Packing group	П			
Environmental hazard	Environmentally hazar	Environmentally hazardous		
	Special provisions		A3	
Special precautions for	Cargo Only Packing	Instructions	364	
user	Cargo Only Maximul	m Qty / Pack	60 L	
	Passenger and Cargo Packing Instructions		353	
	Passenger and Cargo Maximum Qty / Pack		5 L	
	Passenger and Cargo Limited Quantity Packing Instructions		Y341	
	Passenger and Cargo Limited Maximum Qty / Pack		1L	
Sea transport (IMDG-Code / GG	VSee)			
UN number	1993			
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (contains ethylbenzene, xylene and isopropanol)			
Transport hazard	IMDG Class 3			
class(es)	IMDG Not Applicable Subrisk			
Packing group				
Environmental hazard	Marine Pollutant			
	EMS Number	F-E , S-E		
Special precautions for user	Special provisions	274		
	Limited Quantities Annex II of MARPOL a	1L		

Not Applicable

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

Transport in bank in accordance with mark of Annox v and the mode code		
Product name	Group	
isopropanol	Not Available	
Stoddard Solvent	Not Available	
n-nonane	Not Available	
xylene	Not Available	
ethylbenzene	Not Available	
Transport in bulk in accordance with the ICG Code		

Product name	Ship Type
isopropanol	Not Available
Stoddard Solvent	Not Available
n-nonane	Not Available
xylene	Not Available
ethylbenzene	Not Available

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

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

#### isopropanol is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

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

#### Stoddard Solvent 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 Monographs

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

#### n-nonane is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

#### xylene 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

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

Australian Inventory of Industrial Chemicals (AIIC)

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

#### ethylbenzene 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)

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 2B: Possibly carcinogenic to humans

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#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (isopropanol; Stoddard Solvent; n-nonane; xylene; ethylbenzene)
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	18/04/2017

#### **SDS Version Summary**

Version	Issue Date	Sections Updated
2.1.1.1	18/04/2017	Acute Health (inhaled), Handling Procedure, Personal Protection (other), Personal Protection (Respirator)
5.1.1.1	01/11/2019	One-off system update. NOTE: This may or may not change the GHS classification

### 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.

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end of SDS