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Chemwatch: 172-3150	Issue Date: 08/11/2020
Version No: 2.1	Print Date: 01/06/2023
Safety Data Sheet according to OSHA HazCom Standard (2012) requirements	S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

Product name	XTRweld D Penetrant Die - Red
Chemical Name	Not Applicable
Synonyms	CANTESCO VISIBLE DYE PENETRANT P101S - SOLVENT REMOVABLE
Proper shipping name	Aerosols, flammable, (each not exceeding 1 L capacity)
Chemical formula	Not Applicable
Other means of identification	Not Available

Recommended use of the chemical and restrictions on use

Relevant identified uses	Dve penetrant.
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Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	XTRweld
Address	131 Saundersville Rd, Ste 310 Hendersonville, TN 37075 United States
Telephone	(615) 206-3500
Fax	(615) 206-3499
Website	alliancemro.com
Email	sales@alliancemro.com

Emergency phone number

Association / Organisation	Chemwatch	CHEMWATCH EMERGENCY RESPONSE
Emergency telephone numbers	(877) 715-9305	+1 855-237-5573
Other emergency telephone numbers	Not Available	+61 3 9573 3188

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SECTION 2 Hazard(s) identification

Classification of the substance or mixture





Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Classification

Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2, Aerosols Category 1



Signal word Danger

Hazard statement(s)

H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.
H222	Extremely flammable aerosol.

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) Prevention

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection and face protection.
P261	Avoid breathing mist/vapours/spray.
P273	Avoid release to the environment.
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash all exposed external body areas thoroughly after handling.

Precautionary statement(s) Response

exposed or concerned: Get medical advice/ attention.
N EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
ll a POISON CENTER/doctor/physician/first aider/if you feel unwell.
ye irritation persists: Get medical advice/attention.
llect spillage.
NHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary statement(s) Storage

P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

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
64742-94-5	>60	solvent naphtha petroleum, heavy aromatic
95-63-6	1-5	1.2.4-trimethyl benzene
71819-51-7	1-5	C.I. Solvent Red 164
112-34-5	1-5	diethylene glycol monobutyl ether
91-20-3	0.1-1	naphthalene
68476-85-7.	10-30	hydrocarbon propellant

SECTION 4 First-aid measures

Eye Contact	If aerosols come in contact with the eyes: Immediately hold the eyelids apart and flush the eye continuously for at least 15 minutes 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. 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 solids or aerosol mists are deposited upon the skin: Flush skin and hair with running water (and soap if available). Remove any adhering solids with industrial skin cleansing cream. DO NOT use solvents. Seek medical attention in the event of irritation.
Inhalation	 If aerosols, fumes or combustion products are inhaled: Remove to fresh air. 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. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor.
Ingestion	 IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. For advice, contact a Poisons Information Centre or a doctor. Urgent hospital treatment is likely to be needed. In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise: INDUCE vomiting with fingers down the back of the throat, ONLY IF CONSCIOUS. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. NOTE: Wear a protective glove when inducing vomiting by mechanical means.

Most important symptoms and effects, both acute and delayed

See Section 11

Indication of any immediate medical attention and special treatment needed

For petroleum distillates

- · In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption decontamination (induced emesis or lavage) is controversial and should be
- considered on the merits of each individual case; of course the usual precautions of an endotracheal tube should be considered prior to lavage, to prevent aspiration. Individuals intoxicated by petroleum distillates should be hospitalized immediately, with acute and continuing attention to neurologic and cardiopulmonary function.
- Positive pressure ventilation may be necessary.
- · Acute central nervous system signs and symptoms may result from large ingestions of aspiration-induced hypoxia.
- After the initial episode, individuals should be followed for changes in blood variables and the delayed appearance of pulmonary oedema and chemical pneumonitis. Such patients should be followed for several days or weeks for delayed effects, including bone marrow toxicity, hepatic and renal impairment Individuals with chronic pulmonary disease will be more seriously impaired, and recovery from inhalation exposure may be complicated.
- · Gastrointestinal symptoms are usually minor and pathological changes of the liver and kidneys are reported to be uncommon in acute intoxications.
- Chlorinated and non-chlorinated hydrocarbons may sensitize the heart to epinephrine and other circulating catecholamines so that arrhythmias may occur. Careful consideration of this potential adverse effect should precede administration of epinephrine or other cardiac stimulants and the selection of bronchodilators.

BP America Product Safety & Toxicology Department

Treat symptomatically.

for naphthalene intoxication: Naphthalene requires hepatic and microsomal activation prior to the production of toxic effects. Liver microsomes catalyse the initial synthesis of the reactive 1,2-epoxide intermediate which is subsequently oxidised to naphthalene dihydrodiol and alpha-naphthol. The 2-naphthoquinones are thought to produce haemolysis, the 1,2-naphthoquinones are thought to be responsible for producing cataracts in rabbits, and the glutathione-adducts of naphthalene-1,2-oxide are probably responsible for pulmonary toxicity. Suggested treatment regime:

- Induce emesis and/or perform gastric lavage with large amounts of warm water where oral poisoning is suspected.
- Instill a saline cathartic such as magnesium or sodium sulfate in water (15 to 30g).
- Demulcents such as milk, egg white, gelatin, or other protein solutions may be useful after the stomach is emptied but oils should be avoided because they promote absorption.
- If eyes/skin contaminated, flush with warm water followed by the application of a bland ointment.
- Severe anaemia, due to haemolysis, may require small repeated blood transfusions, preferably with red cells from a non-sensitive individual.
- Where intravascular haemolysis, with haemoglobinuria occurs, protect the kidneys by promoting a brisk flow of dilute urine with, for example, an osmotic diuretic such as mannitol. It may be useful to alkalinise the urine with small amounts of sodium bicarbonate but many researchers doubt whether this prevents blockage of the renal tubules.
- Use supportive measures in the case of acute renal failure. GOSSELIN, SMITH HODGE: Clinical Toxicology of Commercial Products, 5th Ed.

SECTION 5 Fire-fighting measures

Extinguishing media

SMALL FIRE:

- Water spray, dry chemical or CO2
- LARGE FIRE: ▶ Water spray or fog.

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

Special protective equipment and precautions for fire-fighters

	FOR FIRES INVOLVING MANY GAS CYLINDERS:
Fire Fighting	To stop the flow of gas, specifically trained personnel may inert the atmosphere to reduce oxygen levels thus allowing the capping of leaking

	 container(s). Reduce the rate of flow and inject an inert gas, if possible, before completely stopping the flow to prevent flashback. DO NOT extinguish the fire until the supply is shut off otherwise an explosive re-ignition may occur. If the fire is extinguished and the flow of gas continues, used increased ventilation to prevent build-up, of explosive atmosphere. Use non-sparking tools to close container valves. Be CAUTIOUS of a Boiling Liquid Evaporating Vapour Explosion, <i>BLEVE</i>, if fire is impinging on surrounding containers. Direct 2500 litre/min (500 gpm) water stream onto containers above liquid level with the assistance remote monitors. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent 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. Equipment should be thoroughly decontaminated after use.
	GENERAL
	 Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Consider evacuation Fight fire from a safe distance, with adequate cover. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. DO NOT approach cylinders suspected to be hot. Cool fire-exposed cylinders with water spray from a protected location. If safe to do so, remove containers from path of fire.
	FIRE FIGHTING PROCEDURES:
	 The only safe way to extinguish a flammable gas fire is to stop the flow of gas. If the flow cannot be stopped, allow the entire contents of the cylinder to burn while cooling the cylinder and surroundings with water from a suitable distance. Extinguishing the fire without stopping the gas flow may permit the formation of ignitable or explosive mixtures with air. These mixtures may propagate to a source of ignition.
	SPECIAL HAZARDS
	 Excessive pressures may develop in a gas cylinder exposed in a fire; this may result in explosion. Cylinders with pressure relief devices may release their contents as a result of fire and the released gas may constitute a further source of hazard for the fire-fighter. Cylinders without pressure-relief valves have no provision for controlled release and are therefore more likely to explode if exposed to fire.
	The need for proximity, entry and flash-over protection and special protective clothing should be determined for each incident, by a competent fire-fighting safety professional.
Fire/Explosion Hazard	 Liquid and vapour are highly flammable. Severe fire hazard when exposed to heat or flame. Vapour forms an explosive mixture with air. Severe explosion hazard, in the form of vapour, when exposed to flame or spark. Vapour may travel a considerable distance to source of ignition. Heating may cause expansion or decomposition with violent container rupture. Aerosol cans may explode on exposure to naked flames. Rupturing containers may rocket and scatter burning materials. Hazards may not be restricted to pressure effects.
	 May emit acrid, poisonous or corrosive fumes. On combustion, may emit toxic fumes of carbon monoxide (CO). Combustion products include: carbon dioxide (CO2) nitrogen oxides (NOx) other pyrolysis products typical of burning organic material. Contains low boiling substance: Closed containers may rupture due to pressure buildup under fire conditions.

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

Minor Spills	 Clean up all spills immediately. Avoid breathing vapours and contact with skin and eyes. Wear protective clothing, impervious gloves and safety glasses. Shut off all possible sources of ignition and increase ventilation. Wipe up. If safe, damaged cans should be placed in a container outdoors, away from all ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely.
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Major Spills	 Remove leaking cylinders to a safe place. Fit vent pipes. Release pressure under safe, controlled conditions Burn issuing gas at vent pipes. DO NOT exert excessive pressure on valve; DO NOT attempt to operate damaged valve. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water courses No smoking, naked lights or ignition sources. Increase ventilation. Stop leak if safe to do so. Water spray or fog may be used to disperse / absorb vapour. Absorb or cover spill with sand, earth, inert materials or vermiculite. If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely.
	 Undamaged cans should be gathered and stowed safely. Collect residues and seal in labelled drums for disposal.

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

SECTION 7 Handling and storage

Precautions for safe handling Avoid all personal contact, including inhalation. Wear protective clothing when risk of exposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. Avoid smoking, naked lights or ignition sources. Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Safe handling DO NOT incinerate or puncture aerosol cans. DO NOT spray directly on humans, exposed food or food utensils. Avoid physical damage to containers. Always wash hands with soap and water after handling. Work clothes should be laundered separately. Use good occupational work practice. Observe manufacturer's storage and handling recommendations contained within this SDS. Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained. Keep dry to avoid corrosion of cans. Corrosion may result in container perforation and internal pressure may eject contents of can Store in original containers in approved flammable liquid storage area. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. No smoking, naked lights, heat or ignition sources. Keep containers securely sealed. Contents under pressure. Store away from incompatible materials. Other information Store in a cool, dry, well ventilated area. Avoid storage at temperatures higher than 40 deg C. Store in an upright position. Protect containers against physical damage. Check regularly for spills and leaks. Observe manufacturer's storage and handling recommendations contained within this SDS.

Conditions for safe storage, including any incompatibilities

Suitable container	 Aerosol dispenser. Check that containers are clearly labelled.
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
US NIOSH Recommended Exposure Limits (RELs)	1,2,4-trimethyl benzene	1,2,4-Trimethylbenzene	25 ppm / 125 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	C.I. Solvent Red 164	Particulates Not Otherwise Regulated (PNOR)- Respirable fraction	5 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	C.I. Solvent Red 164	Particulates Not Otherwise Regulated (PNOR)- Total dust	15 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	C.I. Solvent Red 164	Inert or Nuisance Dust: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	C.I. Solvent Red 164	Inert or Nuisance Dust: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	C.I. Solvent Red 164	Particulates not otherwise regulated	Not Available	Not Available	Not Available	See Appendix D
US OSHA Permissible Exposure Limits (PELs) Table Z-1	naphthalene	Naphthalene	10 ppm / 50 mg/m3	Not Available	Not Available	Not Available

Source	Ingredient	Material name		IWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-3	naphthalene Inert or Nuisance Dust:		st: Respirable fraction	5 mg/m3 / 15 mppcf	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-3	naphthalene Inert or Nuisance Dust		st: Total Dust	15 mg/m3 / 50 mppcf	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	naphthalene	Naphthalene		10 ppm / 50 mg/m3	75 mg/m3 / 15 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	hydrocarbon propellant	L.P.G. (Liquified petro	bleum gas)	1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	hydrocarbon propellant	L.P.G.		1000 ppm / 1800 mg/m3	Not Available	Not Available	Not Available
Emergency Limits							
Ingredient	TEEL-1		TEEL-2		TEEL-3		
1,2,4-trimethyl benzene	140 mg/m3		360 mg/m3		2,200 mg/m3		
1,2,4-trimethyl benzene	Not Available		Not Available		480 ppm	480 ppm	
diethylene glycol monobutyl ether	30 ppm		33 ppm		200 ppm		
naphthalene	15 ppm		83 ppm		500 ppm		
hydrocarbon propellant	65,000 ppm 2		2.30E+05 ppm 4.00E+05 ppm		n		
Ingredient	Original IDLH			Revised IDLH			
solvent naphtha petroleum, heavy aromatic	Not Available			Not Available			
1,2,4-trimethyl benzene	Not Available			Not Available	Not Available		
C.I. Solvent Red 164	Not Available			Not Available			
diethylene glycol monobutyl ether	Not Available			Not Available			
naphthalene	250 ppm			Not Available			
hydrocarbon propellant	2,000 ppm			Not Available			
Occupational Exposure Banding	I						
Ingredient	Occupational Exp	oosure Band Rating		Occupational Ex	posure Band Limi	it	
diethylene glycol monobutyl ether	E		≤ 0.1 ppm				
Notes:	Occupational exposure banding is a process of assigning chemicals into specific categories or bands based on a chemical's potency and the 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.						
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. 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. General exhaust is adequate under normal conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh				
	Type of Contaminant:	Speed:			
Appropriate engineering	aerosols, (released at low velocity into zone of active gene	0.5-1 m/s			
controls	direct spray, spray painting in shallow booths, gas discharg	1-2.5 m/s (200-500 f/min.)			
	Within each range the appropriate value depends on:				
	Lower end of the range	Upper end of the range			
	1: Room air currents minimal or favourable to capture	1: Disturbing room air currents			
	2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity			
	3: Intermittent, low production.	3: High production, heavy use			
	4: Large hood or large air mass in motion 4: Small hood-local control only				
	Simple theory shows that air velocity falls rapidly with distance with the square of distance from the extraction point (in simpl accordingly, after reference to distance from the contaminatin 1-2 m/s (200-400 f/min.) for extraction of solvents generated considerations, producing performance deficits within the ext factors of 10 or more when extraction systems are installed of	e away from the opening of a simple extraction pipe e cases). Therefore the air speed at the extraction p ng source. The air velocity at the extraction fan, for e in a tank 2 meters distant from the extraction point. raction apparatus, make it essential that theoretical r used.	 Velocity generally decreases point should be adjusted, example, should be a minimum of Other mechanical air velocities are multiplied by 		

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Personal protection	
Eye 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. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent] Close fitting gas tight goggles
Skin protection	See Hand protection below
Hands/feet protection	 NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. No special equipment needed when handling small quantities. OTHERWISE: For potentially moderate exposures: Wear general protective gloves, eg. light weight rubber gloves. For potentially heavy exposures: Wear chemical protective gloves, eg. PVC. and safety footwear.
Body protection	See Other protection below
Other protection	No special equipment needed when handling small quantities. OTHERWISE: • Overalls. • Skin cleansing cream. • Eyewash unit. • Do not spray on hot surfaces.

Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the:

"Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

XTRweld D Penetrant Die - Red

Material	СРІ
TEFLON	A

* 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 such as "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.

Respiratory protection

Type AX-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	AX-AUS P3	-	AX-PAPR-AUS / Class 1 P3
up to 50 x ES	-	AX-AUS / Class 1 P3	-
up to 100 x ES	-	AX-2 P3	AX-PAPR-2 P3 ^

^ - 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)

Aerosols, in common with most vapours/ mists, should never be used in confined spaces without adequate ventilation. Aerosols, containing agents designed to enhance or mask smell, have triggered allergic reactions in predisposed individuals.

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Dark red highly flammable liquid with characteristic odour; does not mix with wtaer.		
Physical state	Liquid	Relative density (Water = 1)	0.775
Odour	Characteristic	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	227.8
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	-68.3	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	132	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	-104	Taste	Not Available

Continued...

Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	HIGHLY FLAMMABLE.	Oxidising properties	Not Available
Upper Explosive Limit (%)	24.6	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.84	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
Vapour density (Air = 1)	5.58	VOC g/L	Not Available

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	 Elevated temperatures. Presence of open flame. Product is considered stable. Hazardous polymerisation will not occur.
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

Inhaled	Inhalation of vapours may cause drowsiness and dizziness. This may be co-ordination, and vertigo. Inhalation of aerosols (mists, fumes), generated by the material during the individual. There is some evidence to suggest that the material can cause respirator cause further lung damage. Inhalation of high concentrations of gas/vapour causes lung irritation with dizziness, slowing of reflexes, fatigue and inco-ordination. The acute toxicity of inhaled alkylbenzene is best described by central ne anaesthetics. Whole body symptoms of poisoning include light-headedned dizziness, drowsiness, ringing in the ears, blurred or double vision, vomit convulsions, unconsciousness, depression of breathing, and arrest. Hear and low blood pressure may also occur. Alkylbenzenes are not generally toxic except at high levels of exposure. Trom the body. WARNING :Intentional misuse by concentrating/inhaling contents may be Inhaling high concentrations of mixed hydrocarbons can cause narcosis, (C2-C12) hydrocarbons can irritate mucous membranes and cause incoco loss, drowsiness, tremors and stupor. Exposure to hydrocarbons may result in irregularity of heart beat. Symptor	accompanied by sleepiness, reduced alertness, loss of reflexes, lack of e course of normal handling, may be damaging to the health of the ry irritation in some persons. The body's response to such irritation can a coughing and nausea, central nervous depression with headache and ervous system depression. These compounds may also act as general ess, nervousness, apprehension, a feeling of well-being, confusion, ing and sensations of heat, cold or numbness, twitching, tremors, rt stoppage may result from cardiovascular collapse. A slow heart rate Their breakdown products have low toxicity and are easily eliminated elethal. with nausea, vomiting and lightheadedness. Low molecular weight ordination, giddiness, nausea, vertigo, confusion, headache, appetite oms of moderate poisoning may include dizziness, headache, nausea.	
Ingestion	Accidental ingestion of the material may be harmful; animal experiments produce serious damage to the health of the individual. Considered an unlikely route of entry in commercial/industrial environment	indicate that ingestion of less than 150 gram may be fatal or may nts	
Skin Contact	Repeated exposure may cause skin cracking, flaking or drying following normal handling and use. Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. There is some evidence to suggest that this material can cause inflammation of the skin on contact in some persons. 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. Aromatic hydrocarbons may produce sensitivity and redness of the skin. They are not likely to be absorbed into the body through the skin but branched species are more likely to.		
Eye	This material can cause eye irritation and damage in some persons.		
Chronic	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. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. This material can cause serious damage if one is exposed to it for long periods. It can be assumed that it contains a substance which can produce severe defects. Prolonged or repeated skin contact may cause drying with cracking, irritation and possible dermatitis following. 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. WARNING: Aerosol containers may present pressure related hazards. Animal testing indicates that inhalation of naphthalene may increase the incidence of respiratory tumours and may aggravate chronic inflammation.		
XTRweld D Penetrant Die -	ΤΟΧΙΟΙΤΥ	IRRITATION	
Red	Not Available	Not Available	

	ΤΟΧΙCITY	IRRITATION	
solvent naphtha petroleum, heavy aromatic	Dermal (rabbit) D50: >2000 mg/kg ^[2]	Eve (rabbit): Irritating [PETROFIN]	
	Inhalation(Rat) C50: >0.003 mg/l 4b ^[1]	Ever no adverse effect observed (not irritating) ^[1]	
	Oral (Rat) LD50: 512 mg/kg ^[1]	Skin: adverse effect observed (irritating) ^[1]	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
1.2.4-trimethyl benzene	Dermal (rabbit) LD50: >3160 mg/kg ^[2]	Not Available	
·,_,· , · , ·	Inhalation(Rat) LC50: 18 mg/L4h ^[2]		
	Oral (Rat) LD50; 6000 mg/kg ^[1]		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
C.I. Solvent Red 164	Dermal (rabbit) LD50: >10200 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]	
	τοχιριτγ		
diethylene glycol monobutyl		Eve (rabbit): 20 mg/24b moderate	
ether	Orol (Pat) DE0: 5660 mg/kg[2]	Eve (rabbit): 5 mg - SEVERE	
	ΤΟΧΙΟΙΤΥ	IRRITATION	
nonhtholong	dermal (rat) LD50: >2500 mg/kg ^[2]	Eye (rabbit): 100 mg - mild	
naphtnaiene	Inhalation(Rat) LC50: >0.4 mg/l4h ^[1]	Skin (rabbit):495 mg (open) - mild	
	Oral (Rat) LD50; 490 mg/kg ^[2]		
	ΤΟΧΙΟΙΤΥ	IRRITATION	
hydrocarbon propellant	Inhalation(Rat) LC50: 658 mg/l4h ^[2]	Not Available	
Legend:	1. Value obtained from Europe ECHA Registered Substances	- Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise	
	specified data extracted from RTECS - Register of Toxic Effect	of chemical Substances	
SOLVENT NAPHTHA PETROLEUM, HEAVY AROMATIC	Animal studies indicate that normal, branched and cyclic paraffins are absorbed from the gastrointestinal tract and that the absorption of n-paraffins is inversely proportional to the carbon chain length, with little absorption above C30. With respect to the carbon chain lengths likely to be present in mineral oil, n-paraffins may be absorbed to a greater extent than iso- or cyclo-paraffins. The major classes of hydrocarbons are well absorbed into the gastrointestinal tract in various species. In many cases, the hydrophobic hydrocarbons partly separate from fats and undergo metabolism in the gut cell. The gut cell may play a major role in determining the proportion of hydrocarbon that becomes available to be deposited unchanged in peripheral tissues such as in the body fat stores or the liver. For petroleum: This product contains benzene, which can cause acute myeloid leukaemia, and n-hexane, which can be metabolized to compounds which are toxic to the nervous system. This product contains toluene, and animal studies suggest high concentrations of toluene lead to hearing loss. This product contains ethyl benzene and naphthalene, from which animal testing shows evidence of tumour formation. Cancer-causing potential: Animal testing shows inhaling petroleum causes tumours of the liver and kidney; these are however not considered to be relevant in humans. Mutation-causing potential: Most studies involving gasoline have returned negative results regarding the potential to cause mutations, including all recent studies in living human subjects (such as in petrol service station attendants). Reproductive toxicity: Animal studies show that high concentrations of toluene (>0.1%) can cause developmental effects such as lower birth weight and developmental toxicity to the nervous system of the foetus. Other studies show no adverse effects on the foetus. Human effects: Prolonged or repeated contact may cause defatting of the skin which can lead to skin inflammation and may make the skin more susceptible to irritation and pe		
1,2,4-TRIMETHYL BENZENE	Other Toxicity data is available for CHEMWATCH 12172 1,2,3-trimethylbenzene CHEMWATCH 2325 1,3,5-trimethylbenzene 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 severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. 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 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. For trimethylbenzenes: Absorption of 1,2,4-trimethylbenzene occurs after exposure by swallowing, inhalation, or skin contact. In the workplace, inhalation and skin contact are the most important routes of absorption; whole-body toxic effects from skin absorption are unlikely to occur as the skin irritation caused by the chemical generally leads to quick removal. The substance is fat-soluble and may accumulate in fatty tissues. It is also bound to real blood cells in the bloodstream. It is excreted from the body both by exhalation and in the urine. Acute toxicity: Direct contact with liquid 1,2,4-trimethylbenzene is irritating to the skin, and breathing the vapour is irritating to the airway, causing lun		

Subacute/chronic toxicity: Long-term exposure to solvents containing 1,2,4-trimethylbenzene may cause nervousness, tension and inflammation of the bronchi. Painters that worked for several years with a solvent containing 50% 1,2,4-trimethylbenzene and 30% 1,3,5-trimethylbenzene showed nervousness, tension and anxiety, asthmatic bronchitis, anaemia and changes in blood clotting; blood effects may have been due to trace amounts of benzene. Animal testing showed that inhaling trimethylbenzene may alter blood counts, with reduction in lymphocytes and an

	increase in neutrophils. Genetic toxicity: Animal testing does not show that the Developmental / reproductive toxicity: Animal testing s	e C9 fraction causes mutations or chro showed that the C9 fraction of 1,2,4-tr	prosomal aberrations. imethylbenzene caused reproductive toxicity.
DIETHYLENE GLYCOL MONOBUTYL ETHER	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. This category includes diethylene glycol ethyl ether (DGEE), diethylene glycol propyl ether (DGPE) diethylene glycol butyl ether (DGBE) and diethylene glycol hexyl ether (DGHE) and their acetates. Studies show that they can cause kidney and liver damage, skin and eye irritation as well as blood changes but do not cause damage to the reproductive, genetic and developmental abnormalities, sensitisation or respiratory systems. However, DGEE is reported to cause sperm insufficiency.		
NAPHTHALENE	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis. The material may cause skin irritation after prolonged or repeated exposure and may produce on contact skin redness, swelling, the production of vesicles, scaling and thickening of the skin. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.		
HYDROCARBON PROPELLANT	inhalation of the gas		
C.I. SOLVENT RED 164 & HYDROCARBON PROPELLANT	No significant acute toxicological data identified in literature search.		
Acute Toxicity	×	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	×
Serious Eye Damage/Irritation	×	STOT - Single Exposure	×
Respiratory or Skin sensitisation	×	STOT - Repeated Exposure	×
Mutagenicity	×	Aspiration Hazard	×
		Legend: X – Data either n ✓ – Data availab	ot available or does not fill the criteria for classification le to make classification

SECTION 12 Ecological information

VTRwold D Bonotrant Dia	Endpoint	Test Duration (hr)	Species	Value	Source
Red	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	48h	Crustacea	0.95mg/l	1
	EC50	72h	Algae or other aquatic plants	<1mg/l	1
heavy aromatic	EC50	48h	Crustacea	0.95mg/l	1
	LC50	96h	Fish	2-5mg/l	Not Availab
	EC50	96h	Algae or other aquatic plants	1mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Sour
	BCF	1344h	Fish	31-207	7
	EC50(ECx)	96h	Algae or other aquatic plants	2.356mg/l	2
1,2,4-trimethyl benzene	EC50	48h	Crustacea	ca.6.14mg/l	1
	LC50	96h	Fish	3.41mg/l	2
	EC50	96h	Algae or other aquatic plants	2.356mg/l	2
C.I. Solvent Red 164	Endpoint	Test Duration (hr)	Species	Value	Source
	Not Available	Not Available	Not Available	Not Available	Not Availab
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	72h	Algae or other aquatic plants	1101mg/l	2
liethylene glycol monobutyl	EC50	48h	Crustacea	>100mg/l	1
ether	NOEC(ECx)	96h	Algae or other aquatic plants	>=100mg/l	1
	LC50	96h	Fish	1300mg/l	2
	EC50	96h	Algae or other aquatic plants	>100mg/l	1
	Endpoint	Test Duration (hr)	Species	Value	Sour
	EC50	48h	Crustacea	1.09-3.4mg/l	4
naphthalene	LC50	96h	Fish	0.51mg/l	4
	BCF	1344h	Fish	23-146	7

	EC50	72h	Algae or other aquatic plants	~0.4~0.5mg/l	2
	Endpoint	Test Duration (hr)	Species	Value	Source
	EC50(ECx)	96h	Algae or other aquatic plants	7.71mg/l	2
	LC50	96h	Fish	24.11mg/l	2
hydrocarbon propellant	EC50	96h	Algae or other aquatic plants	7.71mg/l	2
	EC50(ECx)	96h	Algae or other aquatic plants	7.71mg/l	2
	LC50	96h	Fish	24.11mg/l	2
	EC50	96h	Algae or other aquatic plants	7.71mg/l	2
Legend:	Extracted from Ecotox databas - Bioconcentrati	1. IUCLID Toxicity Data 2. Europe ECHA Registere e - Aquatic Toxicity Data 5. ECETOC Aquatic Haza ion Data 8. Vendor Data	ed Substances - Ecotoxicological Information - Aqu ard Assessment Data 6. NITE (Japan) - Bioconcer	uatic Toxicity 4. U Intration Data 7. Mi	'S EPA, ETI (Japan)

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
1,2,4-trimethyl benzene	LOW (Half-life = 56 days)	LOW (Half-life = 0.67 days)
diethylene glycol monobutyl ether	LOW	LOW
naphthalene	HIGH (Half-life = 258 days)	LOW (Half-life = 1.23 days)

Bioaccumulative potential

Ingredient	Bioaccumulation	
solvent naphtha petroleum, heavy aromatic	LOW (BCF = 159)	
1,2,4-trimethyl benzene	LOW (BCF = 275)	
diethylene glycol monobutyl ether	LOW (BCF = 0.46)	
naphthalene	HIGH (BCF = 18000)	

Mobility in soil

Ingredient	Mobility
1,2,4-trimethyl benzene	LOW (KOC = 717.6)
diethylene glycol monobutyl ether	LOW (KOC = 10)
naphthalene	LOW (KOC = 1837)

SECTION 13 Disposal considerations

Waste treatment methods		
Product / Packaging disposal	 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. 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. Consult State Land Waste Management Authority for disposal. Discharge contents of damaged aerosol cans at an approved site. Allow small quantities to evaporate. DO NOT incinerate or puncture aerosol cans. Bury residues and emptied aerosol cans at an approved site. 	

SECTION 14 Transport information

Labels Required	
Marine Pollutant	

UN number	1950			
UN proper shipping name	Aerosols, flammable, (Aerosols, flammable, (each not exceeding 1 L capacity)		
Transport hazard class(es)	Class 2.1 Subrisk Not Appl	icable		
Packing group	Not Applicable			
Environmental hazard	Environmentally hazard	dous		
Special precautions for user	Hazard Label Special provisions	2.1 N82		

Air transport (ICAO-IATA / DGR)

UN number	1950			
UN proper shipping name	Aerosols, flammable			
Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subrisk ERG Code	2.1 Not Applicable 10L		
Packing group	Not Applicable			
Environmental hazard	Environmentally hazardous			
Special precautions for user	Special provisions Cargo Only Packing In Cargo Only Maximum Passenger and Cargo Passenger and Cargo Passenger and Cargo	structions Qty / Pack Packing Instructions Maximum Qty / Pack Limited Quantity Packing Instructions Limited Maximum Qty / Pack	A145 A167 A802 203 150 kg 203 75 kg Y203 30 kg G	

Sea transport (IMDG-Code / GGVSee)

UN number	1950	
UN proper shipping name	AEROSOLS	
Transport hazard class(es)	IMDG Class IMDG Subrisk	2.1 Not Applicable
Packing group	Not Applicable	
Environmental hazard	Marine Pollutant	
Special precautions for user	EMS Number Special provisions Limited Quantities	F-D, S-U 63 190 277 327 344 381 959 1000 ml

Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

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

Product name	Group
solvent naphtha petroleum, heavy aromatic	Not Available
1,2,4-trimethyl benzene	Not Available
C.I. Solvent Red 164	Not Available
diethylene glycol monobutyl ether	Not Available
naphthalene	Not Available
hydrocarbon propellant	Not Available

Transport in bulk in accordance with the ICG Code

Product name	Ship Type
solvent naphtha petroleum, heavy aromatic	Not Available
1,2,4-trimethyl benzene	Not Available
C.I. Solvent Red 164	Not Available
diethylene glycol monobutyl ether	Not Available

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Product name	Ship Type		
naphthalene	Not Available		
hydrocarbon propellant	Not Available		
SECTION 15 Regulatory infor	mation		
Safety, health and environmenta	I regulations / legislation specific for the sub	stance or mixture	
solvent naphtha petroleum, heavy	aromatic is found on the following regulatory lists	i	
International Agency for Research on Monographs - Not Classified as Carc US Toxic Substances Control Act (TS	n Cancer (IARC) - Agents Classified by the IARC inogenic SCA) - Chemical Substance Inventory	US TSCA Chemical Substance Inventory - Interim List of Active Sub	stances
1.2.4 trimothyl bonzono is found or	n the following regulatory lists		
US - Massachusetts - Right To Know	Listed Chemicals	LIS NIOSH Recommended Exposure Limits (RELs)	
US DOE Temporary Emergency Expo	osure Limits (TEELs)	US Toxic Substances Control Act (TSCA) - Chemical Substance Invi	entory
US EPA Integrated Risk Information S US EPCRA Section 313 Chemical List	System (IRIS) st	US TSCA Chemical Substance Inventory - Interim List of Active Sub	stances
C.I. Solvent Red 164 is found on th	ne following regulatory lists		
International WHO List of Proposed O Manufactured Nanomaterials (MNMS	Occupational Exposure Limit (OEL) Values for	US OSHA Permissible Exposure Limits (PELs) Table Z-3 US Toxic Substances Control Act (TSCA) - Chemical Substance Inv.	entory
US - Alaska Air Quality Control - Con Air Pollutants Other Than PM-2.5	centrations Triggering an Air Quality Episode for	US TSCA Chemical Substance Inventory - Interim List of Active Sub	stances
US NIOSH Recommended Exposure US OSHA Permissible Exposure Lim	Limits (RELs) its (PELs) Table Z-1		
diethylene glycol monobutyl ether	is found on the following regulatory lists		
US - California Hazardous Air Polluta	ants Identified as Toxic Air Contaminants	US Toxic Substances Control Act (TSCA) - Chemical Substance Inve	entory
US DOE Temporary Emergency Expo	osure Limits (TEELs)	US TSCA Chemical Substance Inventory - Interim List of Active Sub	stances
US EPCRA Section 313 Chemical Lis	St	US ISCA Section 4/12 (b) - Sunset Dates/Status	
naphthalene is found on the follow	ving regulatory lists		
Chemical Footprint Project - Chemica	als of High Concern List	US CWA (Clean Water Act) - Priority Pollutants	
International Agency for Research on Monographs	Cancer (IARC) - Agents Classified by the IARC	US CWA (Clean Water Act) - Toxic Pollutants US DOE Temporary Emergency Exposure Limits (TEELs)	
International Agency for Research on	n Cancer (IARC) - Agents Classified by the IARC	US EPA Integrated Risk Information System (IRIS)	
Monographs - Group 2B: Possibly ca	rcinogenic to humans	US EPCRA Section 313 Chemical List	
Manufactured Nanomaterials (MNMS	S)	US National Toxicology Program (NTP) 15th Report Part B. Reasona	ably Anticipated to
US - Alaska Air Quality Control - Con	centrations Triggering an Air Quality Episode for	US NIOSH Recommended Exposure Limits (RELs)	
Air Pollutants Other Than PM-2.5	ants Identified as Toxic Air Contaminants	US OSHA Permissible Exposure Limits (PELs) Table Z-1	
US - California Proposition 65 - Carci	inogens	US OSHA Permissible Exposure Limits (PELs) Table Z-3	
US - California Proposition 65 - No S	ignificant Risk Levels (NSRLs) for Carcinogens	US TSCA Chemical Substance Inventory - Interim List of Active Substances	
US - California Safe Drinking Water a List	and Toxic Enforcement Act of 1986 - Proposition 65	US TSCA Section 4/12 (b) - Sunset Dates/Status	
US - Massachusetts - Right To Know	Listed Chemicals		
US Clean Air Act - Hazardous Air Pol	lutants		
US CWA (Clean Water Act) - List of H	Hazardous Substances		
hydrocarbon propellant is found o	n the following regulatory lists		
Chemical Footprint Project - Chemica	als of High Concern List	US OSHA Permissible Exposure Limits (PELs) Table Z-1	
US - Massachusetts - Right To Know	Listed Chemicals	US Toxic Substances Control Act (TSCA) - Chemical Substance Inve	entory
US DOE Temporary Emergency Expo US NIOSH Recommended Exposure	osure Limits (TEELs) Limits (RELs)	US TSCA Chemical Substance Inventory - Interim List of Active Sub	stances
Federal Regulations			
Superfund Amendments and Re	authorization Act of 1986 (SARA)		
Section 311/312 hazard categories			1
Flammable (Gases, Aerosols, Liquid	s, or Solids)		Yes
Gas under pressure			No
Explosive			No
Self-heating			No
Pyrophoric (Liquid or Solid)			No
Pyrophoric Gas			No
Corrosive to metal			No
Oxidizer (Liquid, Solid or Gas)			No

- In contact with water emits flammable gas
- Combustible Dust

No

No

No

No

Carcinogenicity	Yes	
Acute toxicity (any route of exposure)	No	
Reproductive toxicity	Yes	
Skin Corrosion or Irritation	No	
Respiratory or Skin Sensitization	No	
Serious eye damage or eye irritation	Yes	
Specific target organ toxicity (single or repeated exposure)	Yes	
Aspiration Hazard	No	
Germ cell mutagenicity	No	
Simple Asphyxiant	No	
Hazards Not Otherwise Classified No		
US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)		

Name Nepolia	able Quantity in Founds (ib)	Reportable Quantity in kg
naphthalene 100		45.4

State Regulations

US. California Proposition 65

WARNING: This product can expose you to chemicals including naphthalene, which is known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	Yes
Canada - NDSL	No (solvent naphtha petroleum, heavy aromatic; 1,2,4-trimethyl benzene; C.I. Solvent Red 164; diethylene glycol monobutyl ether; naphthalene; hydrocarbon propellant)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (C.I. Solvent Red 164)
Korea - KECI	Yes
New Zealand - NZIoC	Yes
Philippines - PICCS	Yes
USA - TSCA	Yes
Taiwan - TCSI	Yes
Mexico - INSQ	No (C.I. Solvent Red 164)
Vietnam - NCI	Yes
Russia - FBEPH	No (C.I. Solvent Red 164)
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	08/11/2020
Initial Date	08/05/2020
SDS Version Summary	

Version	Date of Update	Sections Updated
2.1	08/10/2020	Appearance

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

end of SDS

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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