

Poly 100 'A' VOC Clear ICP Construction Inc

Version No: **6.8**Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

Issue Date: **05/20/2024**Print Date: **05/20/2024**S.GHS.USA.EN

SECTION 1 Identification

Product Identifier

Product name	ly 100 'A' VOC Clear	
Synonyms	ot Available	
Proper shipping name	esin Solution, flammable	
Other means of identification	Not Available	

Recommended use of the chemical and restrictions on use

Relevant identified	Specialty flooring rooin
uses	Specialty flooring resin

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	ICP Construction Inc	
Address	150 Dascomb Road Andover MA 01810 United States	
Telephone	6-667-5119 1-978-623-9987	
Fax	ot Available	
Website	vww.icpgroup.com	
Email	sds@icpgroup.com	

Emergency phone number

Association / Organisation	ChemTel	
Emergency telephone numbers	1-800-255-3924	
Other emergency telephone numbers	1-813-248-0585	

SECTION 2 Hazard(s) identification

Classification of the substance or mixture

NFPA 704 diamond

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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

Flammable Liquids Category 3, Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 2

Label elements

Hazard pictogram(s)









Signal word

Warning

Hazard statement(s)

H226	Flammable liquid and vapour.	
H315	uses skin irritation.	
H317	ay cause an allergic skin reaction.	
H319	ises serious eye irritation.	
H335	May cause respiratory irritation.	
H351	Suspected of causing cancer.	
H361	Suspected of damaging fertility or the unborn child.	
H411	Toxic to aquatic life with long lasting effects.	

Hazard(s) not otherwise classified

Not Applicable

Precautionary statement(s) General

P101	If medical advice is needed, have product container or label at hand.	
P102	Keep out of reach of children.	
P103	Read label before use.	

Precautionary statement(s) Prevention

P202	Do not handle until all safety precautions have been read and understood.		
P261	void breathing dust/fumes/gas/mist/vapors/spray		
P264	Vash thoroughly after handling.		
P271	e only outdoors or in a well-ventilated area.		
P272	Contaminated work clothing should not be allowed out of the workplace.		
P273	Avoid release to the environment.		
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		

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P233	Keep container tightly closed.	
P240	round/bond container and receiving equipment	
P241	Use explosion-proof electrical, ventilating, lighting equipment.	
P242	Use only non-sparking tools	
P243	Take precautionary measures against static discharge.	

Precautionary statement(s) Response

P303+P361+P353	F ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse SKIN with water (or shower)		
P333+P313	Skin irritation or rash occurs: Get medical advice/attention.		
P304+P340	NHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.		
P305+P351+P338	EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to intinue rinsing.		
P337+P313	ye irritation persists: Get medical advice/attention.		
P308+P313	exposed or concerned: Get medical advice/attention.		
P391	Collect spillage		
P363	Wash contaminated clothing before reuse.		

Precautionary statement(s) Storage

P403+P235	Store in a well-ventilated place. Keep cool.	
P405	Store locked up.	
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
763-69-9	1-5	ethyl-3-ethoxypropionate
108-83-8	0.1-1	diisobutyl ketone
100-41-4	0.1-1	<u>ethylbenzene</u>
78-93-3	0.1-1	methyl ethyl ketone
104-19-8	0.1-1	1-[-2-(dimethylamino)ethyl]-4-methylpiperazine
82919-37-7*	0.202-0.606	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
41556-26-7*	1.414-1.818	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate
25322-68-3	0.3333	polyethylene glycol
104810-47-1	0.3333	di-CG 20-568 ethoxylated
104810-48-2	0.3333	CG 20-568 ethoxylated
98-56-6	30-60	4-chlorobenzotrifluoride

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CAS No	%[weight]	Name
67-64-1	5-10	acetone
98516-30-4	7-13	propylene glycol monoethyl ether acetate - isomers

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 First-aid measures

Description of first aid measures

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. Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. Transport to hospital, or doctor, without delay.
Ingestion	 Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor. If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.

Most important symptoms and effects, both acute and delayed

See Section 11

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.

Treat symptomatically.

for simple esters:

BASIC TREATMENT

- Establish a patent airway with suction where necessary.
- Watch for signs of respiratory insufficiency and assist ventilation as necessary.
- Administer oxygen by non-rebreather mask at 10 to 15 l/min.
- Monitor and treat, where necessary, for pulmonary oedema.
- Monitor and treat, where necessary, for shock.
- DO NOT use emetics. Where ingestion is suspected rinse mouth and give up to 200 ml water (5 ml/kg recommended) for dilution where patient is able to swallow, has a strong gag reflex and does not drool.

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• Give activated charcoal.

ADVANCED TREATMENT

- · Consider orotracheal or nasotracheal intubation for airway control in unconscious patient or where respiratory arrest has occurred.
- ▶ Positive-pressure ventilation using a bag-valve mask might be of use.
- Monitor and treat, where necessary, for arrhythmias.
- Start an IV D5W TKO. If signs of hypovolaemia are present use lactated Ringers solution. Fluid overload might create complications.
- Drug therapy should be considered for pulmonary oedema.
- Hypotension with signs of hypovolaemia requires the cautious administration of fluids. Fluid overload might create complications.
- Treat seizures with diazepam.
- ▶ Proparacaine hydrochloride should be used to assist eye irrigation.

EMERGENCY DEPARTMENT

- Laboratory analysis of complete blood count, serum electrolytes, BUN, creatinine, glucose, urinalysis, baseline for serum aminotransferases (ALT and AST), calcium, phosphorus and magnesium, may assist in establishing a treatment regime. Other useful analyses include anion and osmolar gaps, arterial blood gases (ABGs), chest radiographs and electrocardiograph.
- Positive end-expiratory pressure (PEEP)-assisted ventilation may be required for acute parenchymal injury or adult respiratory distress syndrome.
- Consult a toxicologist as necessary.

BRONSTEIN, A.C. and CURRANCE, P.L. EMERGENCY CARE FOR HAZARDOUS MATERIALS EXPOSURE: 2nd Ed. 1994

SECTION 5 Fire-fighting measures

Extinguishing media

- · Alcohol stable foam.
- Dry chemical powder.

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

Fire Fighting Alert Fire Brigade and tell them location and nature of hazard. May be violently or explosively reactive. Liquid and vapour are flammable. Moderate fire hazard when exposed to heat or flame. Combustion products include: carbon dioxide (CO2) carbon monoxide (CO) hydrogen chloride phosgene hydrogen fluoride other pyrolysis products typical of burning organic material.

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

See section 8

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Environmental precautions

See section 12

Methods and material for containment and cleaning up

Minor Spills	Remove all ignition sources. Clean up all spills immediately.
Major Spills	 Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard.

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

SECTION 7 Handling and storage

Precautions for safe handling

Treductions for sale na	
Safe handling	 Containers, even those that have been emptied, may contain explosive vapours. Do NOT cut, drill, grind, weld or perform similar operations on or near containers. The tendency of many ethers to form explosive peroxides is well documented. Ethers lacking non-methyl hydrogen atoms adjacent to the ether link are thought to be relatively safe DO NOT concentrate by evaporation, or evaporate extracts to dryness, as residues may contain explosive peroxides with DETONATION potential. The substance accumulates peroxides which may become hazardous only if it evaporates or is distilled or otherwise treated to concentrate the peroxides. The substance may concentrate around the container opening for example. Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure occurs. DO NOT allow clothing wet with material to stay in contact with skin
Other information	 Store in original containers in approved flammable liquid storage area. Store away from incompatible materials in a cool, dry, well-ventilated area.

Conditions for safe storage, including any incompatibilities

age, including any incompatibilities
 Packing as supplied by manufacturer. Plastic containers may only be used if approved for flammable liquid. 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.
Contains a six-membered heterocyclic ring.
Six-membered heterocycles can be described as pideficient.
for pyridines:
Because of the electronegative nitrogen in the pyridine ring, the molecule is relatively electron
deficient. It, therefore, enters less readily electrophilic aromatic substitution reactions, which are
characteristic of benzene derivatives; even more so if the reaction mix doesn't scavenge protons
released by the reaction (protonated pyridine is even more electron-deficient).
Secondary amines form salts with strong acids and can be oxidized to the corresponding nitrone using
hydrogen peroxide, catalyzed by selenium dioxide
 Esters react with acids to liberate heat along with alcohols and acids.
Strong oxidising acids may cause a vigorous reaction with esters that is sufficiently exothermic to ignite the reaction products.
• Glycol ethers may form peroxides under certain conditions; the potential for peroxide formation is enhanced

the possible formation of highly reactive peroxides

when these substances are used in processes such as distillation where they are concentrated or even evaporated to near-dryness or dryness; storage under a nitrogen atmosphere is recommended to minimise

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- ▶ Nitrogen blanketing is recommended if transported in containers at temperatures within 15 deg C of the flash-point and at or above the flash-point large containers may first need to be purged and inerted with nitrogen prior to loading
- In the presence of strong bases or the salts of strong bases, at elevated temperatures, the potential exists for runaway reactions.
- Contact with aluminium should be avoided; release of hydrogen gas may result- glycol ethers will corrode scratched aluminium surfaces.

Propylene glycol monomethyl ether acetate:

- may polymerise unless properly inhibited due to peroxide formation
- ▶ should be isolated from UV light, high temperatures, free radical initiators
- may react with strong oxidisers to produce fire and/ or explosion
- ▶ reacts violently with with sodium peroxide, uranium fluoride
- ▶ is incompatible with sulfuric acid, nitric acid, caustics, aliphatic amines, isocyanates, boranes

SECTION 8 Exposure controls / personal protection

Control parameters

Occupational Exposure Limits (OEL)

INGREDIENT DATA

Source	Ingredient	Material name	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Limits (PELs) Table Z-1	diisobutyl ketone	Diisobutyl ketone	50 ppm / 290 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	diisobutyl ketone	Diisobutyl ketone	25 ppm / 150 mg/m3	Not Available	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	ethylbenzene	Ethyl benzene	100 ppm / 435 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	ethylbenzene	Ethyl benzene	100 ppm / 435 mg/m3	545 mg/m3 / 125 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	methyl ethyl ketone	2-Butanone (Methyl ethyl ketone)	200 ppm / 590 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	methyl ethyl ketone	2-Butanone	200 ppm / 590 mg/m3	885 mg/m3 / 300 ppm	Not Available	Not Available
US OSHA Permissible Exposure Limits (PELs) Table Z-1	acetone	Acetone	1000 ppm / 2400 mg/m3	Not Available	Not Available	Not Available
US NIOSH Recommended Exposure Limits (RELs)	acetone	Acetone	250 ppm / 590 mg/m3	Not Available	Not Available	Not Available

Emergency Limits

Ingredient	TEEL-1	TEEL-2	TEEL-3
ethyl-3-ethoxypropionate	1.6 ppm	18 ppm	110 ppm
diisobutyl ketone	75 ppm	330 ppm	2000* ppm
ethylbenzene	Not Available	Not Available	Not Available

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Ingredient	TEEL-1	TEEL-2		TEEL-3
methyl ethyl ketone	Not Available	Not Available		Not Available
polyethylene glycol	30 mg/m3	1,300 mg/m3		7,700 mg/m3
acetone	Not Available	Not Available		Not Available
Ingredient	Original IDLH		Revised IDLH	
ethyl-3-ethoxypropionate	Not Available		Not Available	
diisobutyl ketone	500 ppm		Not Available	
ethylbenzene	800 ppm		Not Available	
methyl ethyl ketone	3,000 ppm		Not Available	
1-[-2- (dimethylamino)ethyl]-4- methylpiperazine	Not Available		Not Available	
methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Not Available		Not Available	
bis(1,2,2,6,6- pentamethyl-4- piperidyl)sebacate	Not Available		Not Available	
polyethylene glycol	Not Available		Not Available	
di-CG 20-568 ethoxylated	Not Available		Not Available	
CG 20-568 ethoxylated	Not Available		Not Available	
4-chlorobenzotrifluoride	Not Available		Not Available	
acetone	2,500 ppm		Not Available	
propylene glycol monoethyl ether acetate - isomers	Not Available		Not Available	

Occupational Exposure Banding

Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit	
ethyl-3-ethoxypropionate	Е	≤ 0.1 ppm	
1-[-2- (dimethylamino)ethyl]-4- methylpiperazine	E	≤ 0.1 ppm	
methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	E	≤ 0.1 ppm	
bis(1,2,2,6,6- pentamethyl-4- piperidyl)sebacate	E	≤ 0.1 ppm	
di-CG 20-568 ethoxylated	D	> 0.1 to ≤ 1 ppm	
CG 20-568 ethoxylated	D > 0.1 to ≤ 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.		

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Ingredient	Occupational Exposure Band Rating	Occupational Exposure Band Limit
4-chlorobenzotrifluoride	Е	≤ 0.1 ppm
Notes:	Occupational exposure banding is a process of assigning on a chemical's potency and the adverse health outcome process is an occupational exposure band (OEB), which that are expected to protect worker health.	es associated with exposure. The output of this

Exposure controls	
Appropriate engineering 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.
Individual protection measures, such as personal protective equipment	
Eye and face protection	► Safety glasses with side shields. ► Chemical goggles.
Skin protection	See Hand protection below
Hands/feet protection	 Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber 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. For esters: Do NOT use natural rubber, butyl rubber, EPDM or polystyrene-containing materials. 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.
Body protection	See Other protection below
Other protection	 Employees working with confirmed human carcinogens should be provided with, and be required to wear, clean, full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers and gloves prior to entering the regulated area. [AS/NZS ISO 6529:2006 or national equivalent] Employees engaged in handling operations involving carcinogens should be provided with, and required to wear and use half-face filter-type respirators with filters for dusts, mists and fumes, or air purifying canisters or cartridges. Prior to each exit from an area containing confirmed human carcinogens, employees should be required to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day, to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of such impervious containers must be identified with suitable labels. Overalls. PVC Apron. Some plastic personal protective equipment (PPE) (e.g. gloves, aprons, overshoes) are not recommended as they may produce static electricity. For large scale or continuous use wear tight-weave non-static clothing (no metallic fasteners, cuffs or pockets).

Respiratory protection

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

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- Cartridge respirators should never be used for emergency ingress or in areas of unknown vapour concentrations or oxygen content.
- The wearer must be warned to leave the contaminated area immediately on detecting any odours through the respirator. The odour may indicate that the mask is not functioning properly, that the vapour concentration is too high, or that the mask is not properly fitted.

 Because of these limitations, only restricted use of cartridge respirators is considered appropriate.
- Cartridge performance is affected by humidity. Cartridges should be changed after 2 hr of continuous use unless it is determined that the humidity is less than 75%, in which case, cartridges can be used for 4 hr. Used cartridges should be discarded daily, regardless of the length of time used

SECTION 9 Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Not Available		
Physical state	Liquid	Relative density (Water = 1)	9.5
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Available	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	Not Available	Molecular weight (g/mol)	Not Available
Flash point (°C)	46	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Flammable.	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower 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 Available
Vapour density (Air = 1)	Not Available	VOC g/L	54

SECTION 10 Stability and reactivity

Reactivity	See section 7
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable.
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7

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Incompatible materials	See section 7
Hazardous decomposition products	See section 5

SECTION 11 Toxicological information

Information on toxicological effects

	Silvarioritorio
Inhaled	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. The main effects of simple esters are irritation, stupor and insensibility. Headache, drowsiness, dizziness, coma and behavioural changes may occur. Inhalation hazard is increased at higher temperatures. Inhalation of quantities of liquid mist may be extremely hazardous, even lethal due to spasm, extreme irritation of larynx and bronchi, chemical pneumonitis and pulmonary oedema. 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.
Ingestion	The material has NOT been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence. Exposure may cause salivation, and increases in blood cholesterol and triglycerides. There may also be increase in weight of the liver and kidney and deposition of fat in the adrenal gland. The main effects of simple esters are irritation, stupor and insensibility. Headache, drowsiness, dizziness, coma and behavioural changes may occur.
Skin Contact	This material can cause inflammation of the skin on contact in some persons. The material may accentuate any pre-existing dermatitis condition Skin contact with the material may damage the health of the individual; systemic effects may result following absorption. 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.
Eye	This material can cause eye irritation and damage in some persons.
Chronic	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. Skin contact with the material is more likely to cause a sensitisation reaction in some persons compared to the general population. There is ample evidence that this material can be regarded as being able to cause cancer in humans based on experiments and other information. Ample evidence exists from experimentation that reduced human fertility is directly caused by exposure to the material. Some glycol esters and their ethers cause wasting of the testicles, reproductive changes, infertility and changes to kidney function. Shorter chain compounds are more dangerous. Data from experimental studies indicate that pyridines represent a potential cause of cancer in man. They have also been shown to cross the placental barrier in rats and cause premature delivery, miscarriages and stillbirths. 4-chlorobenzotrifluoride (PCBTF) may have potential to cause cancer because of its structural similarities with two known cancer causing agents.

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Speculative discussions suspects that the absorption of UVB by the sunscreens chemical agents may enhance free radical formation, DNA damage and possible increase in melanoma formation as well as, decrease in Vitamin D production, which has been suggested to potentiate melanoma, breast and colonic cancer formation.

n	400			~ 1
POIY	100	Α.	VOC	Clear

TOXICITY	IRRITATION
Not Available	Not Available

ethyl-3ethoxypropionate

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 4076 mg/kg ^[2]	Eye (rabbit): 500mg/24h - mild
Inhalation (Rat) LC50: 1250 ppm4h ^[2]	Skin (rabbit):10 mg/24h open mild
Oral (Rat) LD50: ~3200-5000 mg/kg ^[2]	

diisobutyl ketone

TOXICITY	IRRITATION
dermal (rat) LD50: >2000 mg/kg ^[1]	Eye (human): 25 ppm/15min - mild
Inhalation (Rat) LC50: >14.5 mg/l4h ^[1]	Eye (rabbit): 500 mg
Oral (Rat) LD50: >2000 mg/kg ^[1]	Eye: no adverse effect observed (not irritating) ^[1]
	Skin (g.pig): repeated - SEVERE
	Skin (g.pig): Strong *
	Skin (rabbit): 10 mg/24h - mild
	Skin (rabbit): 500 mg - mild
	Skin: adverse effect observed (irritating) ^[1]
	Skin: no adverse effect observed (not irritating) ^[1]

ethylbenzene

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 17800 mg/kg ^[2]	Eye (rabbit): 500 mg - SEVERE
Inhalation (Rat) LC50: 17.2 mg/l4h ^[2]	Eye: no adverse effect observed (not irritating) ^[1]
Oral (Rat) LD50: 3500 mg/kg ^[2]	Skin (rabbit): 15 mg/24h mild
	Skin: no adverse effect observed (not irritating) ^[1]

methyl ethyl ketone

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 6480 mg/kg ^[2]	Eye (human): 350 ppm -irritant
Inhalation(Mouse) LC50; 32 mg/L4h ^[2]	Eye (rabbit): 80 mg - irritant
Oral (Rat) LD50: 2054 mg/kg ^[1]	Skin (rabbit): 402 mg/24 hr - mild
	Skin (rabbit):13.78mg/24 hr open - mild

1-[-2-(dimethylamino)ethyl]-4methylpiperazine

TOXICITY	IRRITATION
Dermal (rabbit) LD50: 347.1 mg/kg ^[2]	Eye (rabbit): 5 mg/24h - SEVERE
Oral (Rat) LD50: 1260 mg/kg ^[2]	Skin (rabbit): 0.1 mg/24h (open)

methyl 1,2,2,6,6pentamethyl-4-piperidyl

TOVICITY	IDDITATION
TOXICITY	IRRITATION

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poxicity ral (Rat) LD50: 3100 mg/kg *[2] poxicity ral (rat) LD50: >2000 mg/kg ^[1] ral (Rat) LD50: 600 mg/kg ^[2] poxicity poxicity poxicity poxicity ranal (rat) LD50: >2000 mg/kg ^[2]	Eye: no a Skin (rab		d (not irritating) ^[1]	
DXICITY Permal (rat) LD50: >2000 mg/kg ^[1] Pal (Rat) LD50: 600 mg/kg ^[2] DXICITY Dt Available DXICITY	Eye (rabb Eye: no a Skin (rab Skin: no a	ON Dit): 500mg/24h - mild. Indverse effect observe bit): 500mg/24h - mild. Indverse effect observe bit in the control of th	d (not irritating) ^[1]	
ermal (rat) LD50: >2000 mg/kg ^[1] ral (Rat) LD50: 600 mg/kg ^[2] DXICITY DXICITY DXICITY	Eye (rabb Eye: no a Skin (rab Skin: no a	oit): 500mg/24h - mild. adverse effect observe bit): 500mg/24h - mild adverse effect observe	d (not irritating) ^[1]	
cal (Rat) LD50: 600 mg/kg ^[2] DXICITY DXICITY DXICITY	Eye: no a Skin (rab	ndverse effect observe bit): 500mg/24h - mild adverse effect observe	d (not irritating) ^[1]	
DXICITY ot Available DXICITY	Skin (rab	bit): 500mg/24h - mild adverse effect observe		
ot Available DXICITY	Skin: no a	adverse effect observe		
ot Available DXICITY		IRRITATION	ed (not irritating) ^[1]	
ot Available DXICITY				
DXICITY		Not Available		
· · ·	IRRIT			
rmal (rat) LD50: >2000 mg/kg ^[2]		TATION		
dermal (rat) LD50: >2000 mg/kg ^[2] Skin (guinea pig): Strong		(guinea pig): Strong se	sensit. [Ciba-Geigy]	
Inhalation (Rat) LC50: >5.8 mg/l4h ^[1] Skin (rabbit): non-iri		(rabbit): non-irritant	ritant	
ral (Rat) LD50: >5000 mg/kg ^[2]				
TOXICITY			IRRITATION	
Dermal (rabbit) LD50: >2 mg/kg ^[2]		Not Available		
Inhalation (Rat) LC50: >32.03 mg/l4h ^[1]				
Oral (Mouse) LD50; 11500 mg/kg ^[2]				
DXICITY	IRRITA	ATION		
ermal (rabbit) LD50: 20000 mg/kg ^[2]	Eye (human): 500 ppm - irritant		ant	
nalation(Mouse) LC50; 44 mg/L4h ^[2]	Eye (rabbit): 20mg/24hr -moderate		derate	
ral (Rat) LD50: 5800 mg/kg ^[2]	Eye (rabbit): 3.95 mg - SEVERE		ERE	
	Eye: adverse effect observed (irritating) ^[1]		d (irritating) ^[1]	
	Skin (rabbit): 500 mg/24hr - mild		mild	
	Skin (rabbit):395mg (open) - mild		mild	
	Skin: no adverse effect observed (not irritating) ^[1]			
TOXICITY		IRRITATION		
Inhalation (Rat) LC50: >6.999 mg/L4h ^[2]		Eye: Slight	Eye: Slight	
Oral (Rat) LD50: >5000 mg/kg ^[2]		Skin: Slight [Skin: Slight [BP Chemicals]*	
7	palation (Rat) LC50: >32.03 mg/l4h ^[1] al (Mouse) LD50; 11500 mg/kg ^[2] XICITY rmal (rabbit) LD50: 20000 mg/kg ^[2] palation(Mouse) LC50; 44 mg/L4h ^[2] al (Rat) LD50: 5800 mg/kg ^[2] XICITY palation (Rat) LC50: >6.999 mg/L4h ^[2]	Salation (Rat) LC50: >32.03 mg/l4h ^[1] Sal (Mouse) LD50; 11500 mg/kg ^[2] IRRITA IRR	IRRITATION IRRITATION IRRITATION Eye (human): 500 ppm - irrit irrit	

manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of

chemical Substances

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Poly 100 'A' VOC Clear	Generally, linear and branched-chain alkyl esters are hydrolysed to their component alcohols and carboxylic acids in the intestinal tract, blood and most tissues throughout the body. Following hydrolysis the component alcohols and carboxylic acids are metabolized Oral acute toxicity studies have been reported for 51 of the 67 esters of aliphatic acyclic primary alcohols and aliphatic linear saturated carboxylic acids.
ETHYL-3- ETHOXYPROPIONATE	* Union Carbide ** Endura Manufacturing
DIISOBUTYL KETONE	[Eastman; * for mixed isomer, ** for 2,6-dimethyl-4-heptanone] NOEL = 400 ppm (12 exposures rat) * LOEL = 250 ppm (30 exposures, rat) ** NOEL = 125 ppm (''') ** - target organ; kidney LOEL = 2000 mg/kg/day (oral neurotoxicity; minor target organs - liver, kidney, stomach) ** NOEL = 2000 mg/kg (for neurotoxicity) ** Skin sensitisation (g.pig) - moderate * For diisobutyl ketone (DIBK) There is very little data on DIBK exposure available. For the risk characterisation a selection of the data on methyl isobutyl ketone (MIBK) and methyl ethyl ketone, (MEK) was used.
ETHYLBENZENE	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. 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 DNA. WARNING: This substance has been classified by the IARC as Group 2B: Possibly Carcinogenic to Humans.
METHYL ETHYL KETONE	Methyl ethyl ketone is considered to have a low order of toxicity; however, methyl ethyl ketone is often used in combination with other solvents and the mixture may have greater toxicity than either solvent alone. Combinations of n-hexane with methyl ethyl ketone, and also methyl n-butyl ketone with methyl ethyl ketone may result in an increased in peripheral neuropathy, a progressive disorder of the nerves of the extremities.
1-[-2- (DIMETHYLAMINO)ETHYL]-4- METHYLPIPERAZINE	Dermal (rabbit): 390 ul/kg Eye (rabbit): 0.75 mg/24h-SEVERE Overexposure to most of these materials may cause adverse health effects. Many amine-based compounds can cause release of histamines, which, in turn, can trigger allergic and other physiological effects, including constriction of the bronchi or asthma and inflammation of the cavity of the nose. Whole-body symptoms include headache, nausea, faintness, anxiety, a decrease in blood pressure, rapid heartbeat, itching, reddening of the skin, urticaria (hives) and swelling of the face, which are usually transient. There are generally four routes of possible or potential exposure: inhalation, skin contact, eye contact, and swallowing. Inhalation: Inhaling vapours may result in moderate to severe irritation of the tissues of the nose and throat and can irritate the lungs. The material may cause severe 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. Repeated exposures may produce severe ulceration.
POLYETHYLENE GLYCOL	for molecular weights (200-8000) * Oral (rat) LD50: 31000->50000 mg/kg Oral (mice) LD50: 38000->50000 mg/kg Oral (g.pig) LD50: 17000->50000 mg/kg Oral (rabbit) LD50: 14000->50000 mg/kg * AIHA WEEL Guides Intraperitoneal (mice) LD50: 3100-12900 mg/kg For polyethylene glycols: Pure polyethylene glycols have essentially similar toxicity, with the lighter species being more toxic. Absorption from the digestive tract decreases with increasing molecular weight. Polyethylene glycols do not have sensitizing and irritating properties on skin, however, allergic reactions (which can present as hives), sometimes delayed, may occur with some lighter species.
DI-CG 20-568 ETHOXYLATED	No clinical signs were observed at 10 mg/kg/day for F and at 10 and 50 mg/kg/day for M. Drooling was observed in M and F at 200 and 1000 mg/kg.

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CG 20 569 ETHOVVI ATED	Inhelation (rot) I C50; > 5.9 mg/l Agracol Eye (robbit); non-irritant Amos Tost; Non-Mutagonia
CG 20-568 ETHOXYLATED	Inhalation (rat) LC50: > 5.8 mg/l Aerosol Eye (rabbit): non-irritant Ames Test: Non Mutagenic
ACETONE	For acetone: The acute toxicity of acetone is low. Acetone is not a skin irritant or sensitizer, but it removes fat from the skin, and it also irritates the eye.
PROPYLENE GLYCOL MONOETHYL ETHER ACETATE - ISOMERS	For propylene glycol ethers (PGEs): Typical propylene glycol ethers include propylene glycol n-butyl ether (PnB); dipropylene glycol n-butyl ether (DPnB); dipropylene glycol methyl ether acetate (DPMA) and tripropylene glycol methyl ether (TPM). Testing of a wide variety of propylene glycol ethers has shown that propylene glycol-based ethers are less toxic than some ethers of the ethylene series. The common toxicities associated with the lower molecular weight homologues of the ethylene series, such as adverse effects on the reproductive organs, the developing embryo and foetus, blood or thymus gland, are not seen with the commercial-grade propylene glycol ethers.
Poly 100 'A' VOC Clear & DIISOBUTYL KETONE & METHYL ETHYL KETONE & 1- [-2- (DIMETHYLAMINO)ETHYL]-4- METHYLPIPERAZINE & 4- CHLOROBENZOTRIFLUORIDE	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.
Poly 100 'A' VOC Clear & 1-[-2- (DIMETHYLAMINO)ETHYL]-4- METHYLPIPERAZINE & methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate & bis(1,2,2,6,6-pentamethyl-4- piperidyl)sebacate & DI-CG 20-568 ETHOXYLATED & CG 20-568 ETHOXYLATED	The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema.
Poly 100 'A' VOC Clear & 4- CHLOROBENZOTRIFLUORIDE	Medium to long term exposure to chlorobenzotrifluoride may produce increase in weight of the liver, kidney, and thyroid gland at high doses. Only limited reproductive effects were noted, and no gene alteration effects.
ETHYL-3- ETHOXYPROPIONATE & DIISOBUTYL KETONE & ETHYLBENZENE & METHYL ETHYL KETONE & POLYETHYLENE GLYCOL & ACETONE	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.
DIISOBUTYL KETONE & POLYETHYLENE GLYCOL	The material may be irritating to the eye, with prolonged contact causing inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
ETHYLBENZENE & 1-[-2- (DIMETHYLAMINO)ETHYL]-4- METHYLPIPERAZINE	The material may produce severe irritation to the eye causing pronounced inflammation. Repeated or prolonged exposure to irritants may produce conjunctivitis.
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate & DI-CG 20-568 ETHOXYLATED & CG 20-568 ETHOXYLATED	No significant acute toxicological data identified in literature search.
POLYETHYLENE GLYCOL & DI-CG 20-568 ETHOXYLATED & CG 20-568 ETHOXYLATED	Polyethers (such as ethoxylated surfactants and polyethylene glycols) are highly susceptible to being oxidized in the air. They then form complex mixtures of oxidation products. Animal testing reveals that whole the pure, non-oxidised surfactant is non-sensitizing, many of the oxidation products are sensitisers.

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DI-CG 20-568 ETHOXYLATED & CG 20-568 ETHOXYLATED

Increase in absolute liver weight observed. No effect on microsomal protein content was noted, while a dose-dependent decrease in cytosolic protein content was observed. Dam livers showed 'moderate to striking peroxisome proliferation at all investigated periods of gestation.' Peroxisomes were identified as 'slightly increased' or 'increased.' No mitochondrial changes and a slight decrease in glycogen content on GD 21 were noted. Absolute liver weight was increased.

For benzotriazoles

There are several indications that the effects of phenolic benzotriazoles described in the literature might be caused by endocrine disruption, e.g. reduced concentrations of testosterone, higher concentrations of CYP 450, or higher activity of ethoxyresorufin-O-deethylase (EROD-activity). As in these cases there are also indications for toxic effects on the liver reported, the effects might actually be only secondary effects.

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 not available or does not fill the criteria for classification

✓ – Data available to make classification

SECTION 12 Ecological information

Toxicity

Poly 400 IALVOC Cloor	Endpoint		Test Duration (hr)		Species	Value		Sourc	е
Poly 100 'A' VOC Clear	Not Available	le Not Available			Not Available	Available Not Availal		ble Not Ava	
	Endpoint	Tes	st Duration (hr)	Spec	ies		Value	e	Source
ethyl-3- ethoxypropionate	EC50(ECx)	48h		Crustacea		970mg/l		1	
	EC50	72h		Algae or other aquatic plants		>114.86mg/l		2	
	EC50	48h		Crustacea			970mg/l		1
	LC50	96h	1	Fish			45.3r	mg/l	2
	Endpoint	Te	est Duration (hr)	Sp	ecies		V	'alue	Source
	EC50	7:	2h	Al	gae or other aquati	c plants	2	6.3mg/l	2

Fish

Crustacea

ethylbenzene

diisobutyl ketone

LC50

EC50

EC50

NOEC(ECx)

96h

48h

96h

96h

Endpoint	Test Duration (hr)	Species	Value	Source
EC50	72h	Algae or other aquatic plants	2.4-9.8mg/L	4
LC50	96h	Fish	3.381-4.075mg/L	4
EC50	48h	Crustacea	1.37-4.4mg/l	4
EC50(ECx)	24h	Algae or other aquatic plants	0.02-938mg/L	4

Algae or other aquatic plants

Algae or other aquatic plants

Continued...

30mg/l

250mg/l

46mg/l

100mg/l

2

1

1

1

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	EC50	96h	Algae or othe	er aquatic pla	nts	1.7-7.6	Smg/L		4
	Endpoint	Test Duration (hr)	Species				Value		Source
	-	48h	-	0					2
	NOEC(ECx)		Crustace		, mlamta		68mg/l		
methyl ethyl ketone	EC50	72h		other aquatio			1220m		2
	EC50	96h		other aquatio	piants		>500m		4
	EC50	48h	Crustace	a 			308mg		2
	LC50	96h	Fish				>324m	g/L	4
	Endpoint	Test Duration (hr)	Species	3			Value	е	Source
1-[-2-	EC50	72h	Algae o	other aquati	ic plants		29mg	g/l	2
dimethylamino)ethyl]-4-	LC50	96h	Fish				>29n	ng/l	2
methylpiperazine	EC50	48h	Crustac	ea			39mg	g/l	2
	NOEC(ECx)	72h	Algae o	other aquati	ic plants		3.2m	g/l	2
methyl 1,2,2,6,6-	Endpoint	Test Duration (hr) Spe	cies	Value	1		Sourc	A
pentamethyl-4-piperidyl	Not Available	Not Available		Available		vailable			ailable
sebacate	Not Available	Not Available	1401	TVAIIADIC	NOCA	valiable		NOL AV	allable
bis(1,2,2,6,6-	Endpoint	Test Duration (hr)	Species		Value		Sc	ource
pentamethyl-4-	EC0(ECx)	24h Crustacea <1		<10mg	mg/l 1				
piperidyl)sebacate	LC50	96h		Fish		0.34mg	g/l	1	
	Endpoint	Test Duration (hr)	Species				Value		Source
	EC50(ECx)	48h	Crustace	a			>100m	ng/l	2
polyethylene glycol	LC50	96h	Fish				>100m	ng/l	2
	EC50	96h	Algae or	other aquatic	plants		>100m	ng/l	2
	EC50	48h		Crustacea			>100mg/l		2
di-CG 20-568	Endpoint	Test Duration (hr			Value			Sourc	
ethoxylated	Not Available	Not Available	Not	Available	Not A	vailable		Not Av	ailable
	Endpoint	Test Duration (hr)	Species				Value)	Source
	EC50	72h	Algae o	other aquati	c plants		~9mg	ı/I	2
CG 20-568 ethoxylated	LC50	96h	Fish				2.8m	g/l	2
	EC50	48h	Crustac	 ea			4mg/l		2
	NOEC(ECx)	72h	Algae o	other aquati	c plants		0.11n	ng/l	2
	Endpoint	Test Duration (hr)	Species				Value		Source
ahlarahan satuktur da	LC50	96h	Fish				3mg/l	/I	2
-chlorobenzotrifluoride	NOEC(ECx)	504h	Crustace				0.03mg		1
	EC50	72h		other aquatio	plants		>0.41n		2
	EC50	48h	Crustace	а			3.68m	g/l	1

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Endpoint	Test Duration (hr)	Species	Value	Source
LC50	96h	Fish	3744.6-5000.7mg/L	4
NOEC(ECx)	12h	Fish	0.001mg/L	4
EC50	72h	Algae or other aquatic plants	5600-10000mg/L	4
EC50	96h	Algae or other aquatic plants	9.873-27.684mg/l	4
EC50	48h	Crustacea	6098.4mg/L	5

acetone

propylene glycol monoethyl ether acetate - isomers

Endpoint	Test Duration (hr)	Species	Value	Source
Not Available	Not Available	Not Available	Not Available	Not Available

Legend:

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

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.

For Propylene Glycol Ethers: log Kow's range from 0.309 for TPM to 1.523 for DPnB. Calculated BCFs range from 1.47 for DPnB to 3.16 for DPMA and TPM, indicating low bioaccumulation.

For 4-chlorobenzotrifluoride (PCBTF):

Environmental Fate:

Soil absorption is anticipated. This substance is relatively biodegradable and is not expected to bioaccumulate or bioconcentrate (BCF 120).

For Glycol Ethers:

Environmental Fate: Several glycol ethers have been shown to biodegrade however; biodegradation slows as molecular weight increases.

No glycol ethers that have been tested demonstrate marked resistance to biodegradative processes.

For Ketones: Ketones, unless they are alpha, beta--unsaturated ketones, can be considered as narcosis or baseline toxicity compounds.

Aquatic Fate: Hydrolysis of ketones in water is thermodynamically favourable only for low molecular weight ketones.

For Pyridine and its Derivatives:

Environmental Fate: As molecular weight/substitution increase in the pyridine category, greater distribution to water and soil, and less to air, is predicted.

Atmospheric Fate: The lower weight pyridine, piperidine, is expected to be rapidly degraded by UV light in the atmosphere, with an estimated half-life of < 1 day.

For UV Filters:

Aquatic Fate/Ecotoxicity: UV filters have been detected in surface water, wastewater and fish, and some of them having an action similar to that of an estrogen in fish. At present, little is known about their additional hormonal activities in different hormonal receptor systems despite their increasing use and environmental persistence.

For Acetone:

log Kow : -0.24;

Half-life (hr) air : 312-1896;

Half-life (hr) H2O surface water : 20; Henry's atm m3 /mol : 3.67E-05 BOD 5: 0.31-1.76,46-55%

COD: 1.12-2.07 ThOD: 2.2BCF: 0.69.

Environmental Fate: The relatively long half-life allows acetone to be transported long distances from its emission source.

DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
ethyl-3-ethoxypropionate	LOW	LOW

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Ingredient	Persistence: Water/Soil	Persistence: Air
diisobutyl ketone	HIGH	HIGH
ethylbenzene	HIGH (Half-life = 228 days)	LOW (Half-life = 3.57 days)
methyl ethyl ketone	LOW (Half-life = 14 days)	LOW (Half-life = 26.75 days)
1-[-2- (dimethylamino)ethyl]-4- methylpiperazine	HIGH	HIGH
polyethylene glycol	LOW	LOW
4-chlorobenzotrifluoride	HIGH	HIGH
acetone	LOW (Half-life = 14 days)	MEDIUM (Half-life = 116.25 days)

Bioaccumulative potential

Ingredient	Bioaccumulation
ethyl-3-ethoxypropionate	LOW (LogKOW = 1.0809)
diisobutyl ketone	LOW (LogKOW = 2.5646)
ethylbenzene	LOW (BCF = 79.43)
methyl ethyl ketone	LOW (LogKOW = 0.29)
1-[-2- (dimethylamino)ethyl]-4- methylpiperazine	LOW (LogKOW = -0.6794)
polyethylene glycol	LOW (LogKOW = -1.1996)
4-chlorobenzotrifluoride	LOW (BCF = 202)
acetone	LOW (BCF = 0.69)

Mobility in soil

Ingredient	Mobility
ethyl-3-ethoxypropionate	LOW (Log KOC = 10)
diisobutyl ketone	LOW (Log KOC = 60.12)
ethylbenzene	LOW (Log KOC = 517.8)
methyl ethyl ketone	MEDIUM (Log KOC = 3.827)
1-[-2- (dimethylamino)ethyl]-4- methylpiperazine	LOW (Log KOC = 336.3)
polyethylene glycol	HIGH (Log KOC = 1)
4-chlorobenzotrifluoride	LOW (Log KOC = 1912)
acetone	HIGH (Log KOC = 1.981)

SECTION 13 Disposal considerations

Waste treatment methods

Product / Packaging disposal

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

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area.

▶ DO NOT allow wash water from cleaning or process equipment to enter drains.

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- It may be necessary to collect all wash water for treatment before disposal.
- 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.

SECTION 14 Transport information

Labels Required



Marine Pollutant



Shipping container, transport vehicle placarding, and labeling may vary from the below information. This depends on the quantity shipped, the applicability of excepted quantity requirements, limited quantity requirements, and/or special provisions according to US DOT, IATA and IMDG regulations. In case of reshipment, it is the responsibility of the shipper to determine the appropriate labels and markings in accordance with applicable transport regulations.

Land transport (DOT)

14.1. UN number or ID number	1866		
14.2. UN proper shipping name	Resin Solution, flamm	nable	
14.3. Transport hazard class(es)	Class Subsidiary Hazard	Not Applicable	
14.4. Packing group	III		
14.5. Environmental hazard	Environmentally haza	rdous	
14.6. Special	Hazard Label 3		
precautions for user	Special provisions	B1, B52, IB3, T2, TP1	

Air transport (ICAO-IATA / DGR)

14.1. UN number	1866		
14.2. UN proper shipping name	Resin solution flammable		
14.3. Transport hazard class(es)	ICAO/IATA Class ICAO / IATA Subsidiary Hazard ERG Code	3 Not Applicable 3L	
14.4. Packing group	III		
14.5. Environmental hazard	Environmentally hazardous		
14.6. Special precautions for	Special provisions		A3

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user	Cargo Only Packing Instructions	366
	Cargo Only Maximum Qty / Pack	220 L
	Passenger and Cargo Packing Instructions	355
	Passenger and Cargo Maximum Qty / Pack	60 L
	Passenger and Cargo Limited Quantity Packing Instructions	Y344
	Passenger and Cargo Limited Maximum Qty / Pack	10 L

Sea transport (IMDG-Code / GGVSee)

14.1. UN number	1866		
14.2. UN proper shipping name	RESIN SOLUTION flammable		
14.3. Transport hazard	IMDG Class		3
class(es)	IMDG Subsidiary Ha	azard	Not Applicable
14.4. Packing group	Ш		
14.5 Environmental hazard	Marine Pollutant		
14.6. Special	EMS Number	F-E,	S-E
precautions for user	Special provisions	223 9	955
	Limited Quantities	5 L	

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

Not Applicable

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

Product name	Group
ethyl-3-ethoxypropionate	Not Available
diisobutyl ketone	Not Available
ethylbenzene	Not Available
methyl ethyl ketone	Not Available
1-[-2- (dimethylamino)ethyl]-4- methylpiperazine	Not Available
methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Not Available
bis(1,2,2,6,6- pentamethyl-4- piperidyl)sebacate	Not Available
polyethylene glycol	Not Available
di-CG 20-568 ethoxylated	Not Available
CG 20-568 ethoxylated	Not Available
4-chlorobenzotrifluoride	Not Available
acetone	Not Available

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Product name	Group
propylene glycol monoethyl ether acetate - isomers	Not Available

14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
ethyl-3-ethoxypropionate	Not Available
diisobutyl ketone	Not Available
ethylbenzene	Not Available
methyl ethyl ketone	Not Available
1-[-2- (dimethylamino)ethyl]-4- methylpiperazine	Not Available
methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	Not Available
bis(1,2,2,6,6- pentamethyl-4- piperidyl)sebacate	Not Available
polyethylene glycol	Not Available
di-CG 20-568 ethoxylated	Not Available
CG 20-568 ethoxylated	Not Available
4-chlorobenzotrifluoride	Not Available
acetone	Not Available
propylene glycol monoethyl ether acetate - isomers	Not Available

SECTION 15 Regulatory information

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

ethyl-3-ethoxypropionate is found on the following regulatory lists

US DOE Temporary Emergency Exposure Limits (TEELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

diisobutyl ketone is found on the following regulatory lists

US - Massachusetts - Right To Know Listed Chemicals

US DOE Temporary Emergency Exposure Limits (TEELs)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

ethylbenzene is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

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

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International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US - California Proposition 65 - Carcinogens

US - California Proposition 65 - No Significant Risk Levels (NSRLs) for Carcinogens

US - California Safe Drinking Water and Toxic Enforcement Act of 1986 - Proposition 65 List

US - Massachusetts - Right To Know Listed Chemicals

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US Clean Air Act - Hazardous Air Pollutants

US CWA (Clean Water Act) - List of Hazardous Substances

US CWA (Clean Water Act) - Priority Pollutants

US CWA (Clean Water Act) - Toxic Pollutants

US DOE Temporary Emergency Exposure Limits (TEELs)

US EPA Integrated Risk Information System (IRIS)

US EPCRA Section 313 Chemical List

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

methyl ethyl ketone is found on the following regulatory lists

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US - Massachusetts - Right To Know Listed Chemicals

US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)

US DOE Temporary Emergency Exposure Limits (TEELs)

US Drug Enforcement Administration (DEA) List I and II Regulated Chemicals

US EPA Integrated Risk Information System (IRIS)

US NIOSH Recommended Exposure Limits (RELs)

US OSHA Permissible Exposure Limits (PELs) Table Z-1

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

1-[-2-(dimethylamino)ethyl]-4-methylpiperazine is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

polyethylene glycol is found on the following regulatory lists

US AIHA Workplace Environmental Exposure Levels (WEELs)

US DOE Temporary Emergency Exposure Limits (TEELs)

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

US Toxicology Excellence for Risk Assessment (TERA) Workplace Environmental Exposure Levels (WEEL)

di-CG 20-568 ethoxylated is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

CG 20-568 ethoxylated is found on the following regulatory lists

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

4-chlorobenzotrifluoride is found on the following regulatory lists

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

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International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans

- US California Proposition 65 Carcinogens
- US California Proposition 65 No Significant Risk Levels (NSRLs) for Carcinogens
- US California Safe Drinking Water and Toxic Enforcement Act of 1986 Proposition 65 List
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US TSCA Section 4/12 (b) Sunset Dates/Status

acetone is found on the following regulatory lists

- US Massachusetts Right To Know Listed Chemicals
- US ATSDR Minimal Risk Levels for Hazardous Substances (MRLs)
- US DOE Temporary Emergency Exposure Limits (TEELs)
- US Drug Enforcement Administration (DEA) List I and II Regulated Chemicals
- US EPA Integrated Risk Information System (IRIS)
- US NIOSH Recommended Exposure Limits (RELs)
- US OSHA Permissible Exposure Limits (PELs) Table Z-1
- US Toxic Substances Control Act (TSCA) Chemical Substance Inventory
- US TSCA Section 4/12 (b) Sunset Dates/Status

propylene glycol monoethyl ether acetate - isomers is found on the following regulatory lists

US - California Hazardous Air Pollutants Identified as Toxic Air Contaminants

US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory

Additional Regulatory Information

Not Applicable

Federal Regulations

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 311/312 hazard categories

Flammable (Gases, Aerosols, Liquids, or Solids)	Yes
Gas under pressure	No
Explosive	No
Self-heating Self-heating	No
Pyrophoric (Liquid or Solid)	No
Pyrophoric Gas	No
Corrosive to metal	No
Oxidizer (Liquid, Solid or Gas)	No
Organic Peroxide	No
Self-reactive	No
In contact with water emits flammable gas	No
Combustible Dust	No
Carcinogenicity	Yes
Acute toxicity (any route of exposure)	No
Reproductive toxicity	Yes
Skin Corrosion or Irritation	Yes
Respiratory or Skin Sensitization	Yes
Serious eye damage or eye irritation	Yes

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Specific target organ toxicity (single or repeated exposure)	No
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	Reportable Quantity in Pounds (lb)	Reportable Quantity in kg
ethylbenzene	1000	454
methyl ethyl ketone	5000	2270
methyl ethyl ketone	5000	2270
acetone	5000	2270

US. EPCRA Section 313 Toxic Release Inventory (TRI) (40 CFR 372)

This product contains the following EPCRA section 313 chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know-Act of 1986 (40 CFR 372):

100-41-4 0 1-1 ethylbenzene	CAS No	%[weight]	Name
100-41-4 0.1-1 cutylbenzene	100-41-4	0.1-1	ethylbenzene

This information must be included in all SDSs that are copied and distributed for this material.

Additional Federal Regulatory Information

Not Applicable

State Regulations

US. California Proposition 65



MARNING: This product can expose you to chemicals including ethylbenzene, 4-chlorobenzotrifluoride, which are known to the State of California to cause cancer, and toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov

Additional State Regulatory Information

Not Applicable

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	No (propylene glycol monoethyl ether acetate - isomers)
Canada - DSL	No (1-[-2-(dimethylamino)ethyl]-4-methylpiperazine)
Canada - NDSL	No (ethyl-3-ethoxypropionate; diisobutyl ketone; ethylbenzene; methyl ethyl ketone; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate; polyethylene glycol; di-CG 20-568 ethoxylated; CG 20-568 ethoxylated; 4-chlorobenzotrifluoride; acetone; propylene glycol monoethyl ether acetate - isomers)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	No (di-CG 20-568 ethoxylated; propylene glycol monoethyl ether acetate - isomers)
Japan - ENCS	No (propylene glycol monoethyl ether acetate - isomers)
Korea - KECI	Yes

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National Inventory	Status		
New Zealand - NZIoC	Yes		
Philippines - PICCS	Yes		
USA - TSCA	Yes		
Taiwan - TCSI	Yes		
Mexico - INSQ	No (1-[-2-(dimethylamino)ethyl]-4-methylpiperazine; methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; polyethylene glycol; di-CG 20-568 ethoxylated; CG 20-568 ethoxylated; 4-chlorobenzotrifluoride; propylene glycol monoethyl ether acetate - isomers)		
Vietnam - NCI	Yes		
Russia - FBEPH	No (methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; di-CG 20-568 ethoxylated; CG 20-568 ethoxylated; propylene glycol monoethyl ether acetate - isomers)		
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 of will require registration.		

SECTION 16 Other information

Revision Date	05/20/2024
Initial Date	05/10/2021

CONTACT POINT

SDS Version Summary

Version	Date of Update	Sections Updated
5.8	05/20/2024	Physical and chemical properties - Appearance, Toxicological information - Chronic Health, Hazards identification - Classification, Ecological Information - Environmental, Exposure controls / personal protection - Exposure Standard, Composition / information on ingredients - Ingredients, Name

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.

Definitions and abbreviations

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- ▶ IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ▶ TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- ► OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- ▶ LOD: Limit Of Detection

^{**}PLEASE NOTE THAT TITANIUM DIOXIDE IS NOT PRESENT IN CLEAR OR NEUTRAL BASES**

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- ▶ OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- 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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