Safety Data Sheet

Date of issue: 28/02/2023 Revision Date: N/A Version 1



SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 **Product Identifier**

1.4	Emergency Number	
Contact	Person:	sales@palatinepaints.co.uk
		Tel +44 (0) 1373 451170 Fax +44 (0) 1373 467800
Supplier		Palatine Paints & Chemicals Limited 55 Smallbrook Lane Leigh, Lancashire WN7 5PZ
1.3	Details of the Supplier of the Safety I	Data Sheet
Further in	nformation	See exposure scenarios in section 8
Identified	l Uses	Industrial uses, professional uses Cleaner Solvents Manufacture of substance Distribution of substance
1.2	Relevant Identified Uses of the Subs	tance or Mixture and Uses Advised Against
Product Synonyn Applicati REACH CAS-No. EC No. Formula	Name ns Trade names on Registration Number(s)	Carbosolv Gun Wash Thinners Gun Wash, Cellulose Thinners Industrial Blend of Solvents 01-211978062-37-0000, 01-2119488216-32, 01-2119471310-51, 01-2119457558-25. 01-2119433307-44. 01-2119475103-46, 01-2119480404-41-XXXX 67-64-1, 1330-20-7, 108-88-3, 67-63-0, 67-56-1, 141-78-6, 75-09-2 200-660-2, 215-535-7, 203-625-9, 200-661-7, 200-659-6, 205-500-4, 200-838-9 Not determined

Country	Organisation/Company	Address	Emergency number
	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0844 892 0111 (UK only)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 12	72/2008
Product Definition	Blended substance
Application	Industrial Blend of Solvents
REACH Registration Number(s)	01-211978062-37-0000, 01-2119488216-32, 01-2119471310-51,
	01-2119457558-25. 01-2119433307-44. 01-2119475103-46, 01-2119480404-41-XXXX
CAS-No.	67-64-1, 1330-20-7, 108-88-3, 67-63-0, 67-56-1, 141-78-6, 75-09-2
EC No.	200-660-2, 215-535-7, 203-625-9, 200-661-7, 200-659-6, 205-500-4, 200-838-9
Flam. Liq. (Category 2)	H225
Aspiration Toxicity (Category 1)	H304
Acute Dermal Tox (Category 4)	H312
Acute Inhalation Tox – vapours (Category 4)	H332
Skin corrosion/irritation (Category 2)	H315

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Eye irritation (Category 2) H319 STOT SE (Category 2) H373 Chronic aquatic toxicity (Category 3) H412 Reproductive toxicity (Category 2) H361 Specific target organ toxicity - single exposure (Category 3) Narcosis H336 Specific target organ toxicity - repeated exposure (Category 2) H373

For the full text of the H statements mentioned in this section, see Section 16.

Adverse Physicochemical, human health and environmental effects Highly flammable liquid and vapour May cause drowsiness or dizziness

22 Label Elements

Pictogram Signal word

Labelling according to Regulation (EC) No. 1272/2008



P303+361+353

- IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing Rinse skin with water/ shower
- Call a POISON CENTER or doctor/physician if you feel unwell.
- P337 If eye irritation persists:

P370+378 In case of fire: Use for extinction.

- P403+233 Store in a well-ventilated place. Keep container tightly closed.
- P403+235 Store in a well-ventilated place. Keep cool.

P312

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	P405 P501	Store locked up. Dispose of contents/container to a licensed waste contractor.
tatements	FUH066	Repeated exposure may cause skin dryness or cracking

Supplemental Hazard statements

EUH066 Repeated exposure may cause skin dryness or cracking

Others Hazards 2.3

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels 0.1% or higher

SECTION 3: Composition/ Information on Ingredients

3.1 Substances

REACH Registration Number(s)

CAS-No. EC No. Formula

01-211978062-37-0000, 01-2119488216-32, 01-2119471310-51, 01-2119457558-25. 01-2119433307-44. 01-2119475103-46, 01-2119480404-41-XXXX **67-64-1**, **1330-20-7**, 108-88-3, 67-63-0, 67-56-1, 141-78-6, 75-09-2 200-660-2, 215-535-7, 203-625-9, 200-661-7, 200-659-6, 205-500-4, 200-838-9 Not determined

Xylenes

Substance name / Component	Classification	Concentration
CAS-No. 1330-20-7 EC No. 215-535-7 REACH 01-2119488216-32	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) STOT RE 23 (H373) Aquatic Chronic 3 (H412)	1 - <3%

Propan-2-one, propanone, Acetone

Substance name / Component	Classification	Concentration
CAS-No. 67-64-1 EC No. 200-660-2 EU Index No. 606-001-00-8 REACH No 01-211978062-37-0000	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE3: H336	5 - < 10%

Toluene

~					
	Substance name / Component	Classification	Concentration		
	CAS No 108-88-3 EC no 203-625-9 EC index no 601-021-00-3 REACH-no 01-2119471310-51	Flam. Liq. 2, H225 Repr. 2, H361d Asp. Tox. 1, H304 STOT RE 2, H373 Skin Irrit. 2, H315 STOT SE 3, H336	10 - <20.%		

Isopropanol

-			
	Substance name / Component	Classification	Concentration
	CAS No)67-63-0 EC no)200-661-7 EC index no 603-117-00-0 REACH-no 01-2119457558-25	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	5 - <10.%

Methanol

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Substance name / Component	Classification	Concentration
CAS No 67-56-1 EC no 200-659-6 EC index no 603-001-00- X REACH-no 01-2119433307-44	Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT SE 1, H370	1 - <10.%

Ethyl Acetate

Substance name / Component	Classification	Concentration
CAS No 141-78-6 EC no 205-500-4 EC index no 607-022-00-5 REACH-no 01-2119475103-46	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	1 - <3.%

Dichloromethane

Substance name / Component	Classification	Concentration
CAS No 75-09-2 EC no 200-838-9 EC index no 602-004-00-3 REACH 01-2119480404-41-XXXX	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351	1 - <10%

For the full text of the H statements mentioned in this section, see Section 16

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

General Advice	Remove affected person from source of contamination. If symptoms persist call a physician.	
If Inhaled	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention. If not breathing, give artificial respiration Risk of serious damage to the lungs (by aspiration)	
If Ingested	Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes If skin irritation persists, call a physician	
In in eyes	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Get medical attention	
Self-protection of the first aider	Ensure the medical personal are aware of the material(s) involved Take precaution to protect themselves and prevent spread of contamination	
4.2 Most Important Symptoms and Effect	ts, both Acute and Delayed	
General Information	The severity of the symptoms described will vary dependant of the concentration and the length of exposure	
If inhaled	Acute: Vapours may cause headache, fatigue, dizziness and nausea Irritation of nose, throat and airway Delayed: Central nervous system depression	
If ingested	Acute: Nausea vomiting, headache, drowsiness, irritation of mouth, throat and oesophagus Delayed: Pulmonary edema, coma, liver and kidney damage	

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Skin contact	Acute: Redness and skin irritation Delayed: Skin dryness and dermatitis
If in eyes	Acute: irritating and may cause redness and pain Delayed: May cause conjunctivitis
4.3 Indication of any immediate medica	al attention and special treatment needed
Hand / Eye wash facilities must be in place close Severe cases of eye contact and ingestion shou	e to operators work area to provide immediate first aid prior to medical attention Id receive medical attention immediately
Notes to Physician	Treat symptomatically Symptoms may be delayed
SECTION 5: Firefighting Measures	
5.1 Extinguishing Media	
Suitable extinguishing media	Water spray Alcohol resistant foam Carbon dioxide (CO ₂) Water mist may be used to cool closed containers DO NOT USE a solid water stream as it may scatter and spread fire
5.2 Special hazards arising from the su	bstance or mixture
Specific Hazards	Highly flammable liquid and vapour. Containers may explode when heated Vapours may form explosive mixtures with air Vapours may travel to source of ignition and flash back
Hazardous decomposition products	Carbon oxides (CO, CO2)
5.3 Advice for firefighters	
Special Firefighting Procedures	Evacuate area. Containers close to the fire should be cooled with water if safe to do so Be aware that any flammable substance containers are liable to explode when heated Prevent run-off from entering drains and watercourses Be aware of dangers from other hazardous substances in the immediate area
Protective measures in Fire	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus.
5.4 Further Information	

Do not allow run-off from fire-fighting to enter drains or water courses. Dispose of waste in accordance with environmental legislation.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

Advice for non-emergency personnel	Evacuate unnecessary personnel. Use protective clothing and equipment as described in section 8 of this datasheet Isolate all sources of ignition Provide adequate ventilation Avoid ingestion, inhalation of vapours and contact with skin and eyes Restrict access to the area until the spillage is treated If large amounts of vapours are produced that will be hazardous to others evacuate the area Use suitable respiratory equipment if spillages occur in enclosed spaces and vapours are produced Have emergency procedures in place for treating spillages evacuating the area and informing the emergency services if necessary
Advice for emergency personnel	Ensure procedures and training for emergency decontamination and disposal are in place. Concerning personal protective equipment to use, see section 8.

6.2 Environmental Precautions

Do not allow spilled material to enter drains sewers or water courses

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Cover all drains and sewers Avoid spreading material Contain spillages with sand, earth or suitable absorbent material Prevent further spillage if safe to do so In the event of contamination of watercourses or sewers, advise the Environment Agency fire brigade and police

6.3 Methods and Materials for containment and cleaning up

Isolate all ignition sources Avoid heat, flames, sparks and static discharge NO SMOKING Small spillages Absorb with inert, non-combustible material Large spillages Dam and absorb spillages with sand, earth or other inert non-combustible material Fir drain covers where they are available Provide adequate ventilation Any extraction systems use to ventilate the area must be flameproof Collect spillage in containers, seal securely and deliver for disposal according to local regulations Containers with collected spillage must be properly labelled with correct contents and hazard symbol Ensure there are no ignition or heat sources in the waste storage area Wash spillage site with water and detergent; be aware of the potential surfaces to become slippery After spillages in enclosed areas test atmosphere before using any potential ignition sources Ventilate area and allow to dry before allowing access

6.4 Reference to Other Sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

Advice on safe handling	Provide adequate ventilation. Use personal protective equipment as required. Concerning personal protective equipment to use, see section 8. Do not breathe vapours. Avoid contact with skin, eyes and clothing. Take any precaution to avoid mixing with Incompatible materials, Refer to Section 10 on Incompatible Materials. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking Use explosion-proof equipment. Use only non-sparking tools.
Hygiene Measures	Keep good industrial hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Do not eat, drink or smoke when using this product. Keep away from food, drink and animal feeding stuffs. Remove contaminated clothes. Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse
Information on fire and explosion protection	Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.
7.2 Conditions for Safe Storage Including	g any Incompatibilities
Storage conditions	Storage of flammable liquids. Store in a dry, cool and well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not store near or with any of the incompatible materials listed in section 10. Keep container tightly closed in a dry and well-ventilated place
Packaging material	Keep only in the original container

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Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control Parameters

Ingredients with workplace control parameters

Exposure limits

List source(s):

EU – Commission Directive (EU) 2019-1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council directive 98/24/EC and amending Commission Directive 2000/39/EC

UK – EH40/2005 Work Exposure Limits, Third edition. Published 2018

IRE - 2018 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

Component	The United Kingdom	European Union	Ireland
Xylenes	STEL: 100 ppm 15 min	TWA: 50 ppm (8hr)	TWA: 50 ppm 8 hr
	STEL: 441 mg/m ³ 15 min	TWA: 221 mg/m ³ (8h)	TWA: 221 mg/m ³ 8hr
	TWA: 50 ppm 5 hr	STEL: 100 ppm (15 min)	STEL: 100 ppm 15 min
	TWA: 220 mg/m ³ 5 hr	STEL: 442 mg/m ³ (15 min)	STEL: 442 mg/m ³ 15 min
	Skin	Skin	Skin

Biological limit values

List source(s):

UK – Biological Monitoring Guidance Values provided by the UK's health and Safety Executive (HSE) Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended) and EH40/2005

Component	United Kingdom	European Union
Xylenes	Methyl hippuric acid: 650 mmol/mol	
	Creatinine urine post shift	

Monitoring methods

BS EN 14042:2003 Title identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography NDHS 96 Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes solvent desorption and gas chrolarography Derived No Effect Level (DNEL

Industry	Inhalation	Short Term	289 (systemic and local)	mg/m ³
Industry	Dermal	Long Term	289 (systemic)	mg/kg/day
Industry	Inhalation	Long Term	77	mg/m ³
Consumer	Inhalation	Short Term	174 (systemic and local)	mg/m ³
Consumer	Dermal	Long Term	108 (systemic)	mg/kg/day
Consumer	Inhalation	Long Term	14.8 (systemic)	mg/m ³
Consumer	Oral	Long Term	1.6 (systemic)	mg/kg/day

Predicted No Effect Level (PNEC)

Freshwater	0.327	mg/l
Marine water	0.327	mg/l
Microorganisms in sewage treatment	6.58	mg/l
Sediment (freshwater)	12.46	mg/kg dw
Sediment (Marine water)	12.46	mg/kg dw
Soil	2.31	mg/kg dw

Propan-2-one, propanone, Acetone

EU	Local name	Acetone
EU	IOELV TWA (mg/m ³)	1210 mg/m ³
EU	IOELV TWA (ppm)	500 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Germany	TRGS 910 Acceptable concentration notes	
United Kingdom	Local name	Acetone
United Kingdom	WEL TWA (mg/m ³)	1210 mg/m ³
United Kingdom	WEL TWA ppm	500 ppm
United Kingdom	WEL STEL (mg/m ³)	3620 (mg/m ³)
United Kingdom	WEL STEL (ppm)	1500 ppm
United Kingdom	Regulatory reference	EH40/2005 (third edition, 2018) HSE

Derived No Effect Level (DNEL) Derived Minimal Effect Level (DMEL)					
DNEL / DMEL – workers	Acute – local effects, inhalation 2420 mg/m ³				
	Long-term – systemic effects, dermal	186 mg/kg bodyweight/day			
	Long-tern – systemic effects, inhalation 1210 mg/m ³				
DNEL / DMEL – general population	Long-term – systemic effects, oral	62 mg/kg bodyweight/day			

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	Long-term – systemic effect Long-term – systemic effect	ts, inhalation ts, dermal	200 mg/m ³ 62 mg/kg bodyweight/day
PNEC (Water)			
PNEC agua (freshwater)	10	.6 mg/l	
PNEC aqua (marine water)	1.(06 mg/l	
PNEC aqua (intermittent, freshwater)	21	mg/l	
PNEC (Sediment) PNEC sediment (freshwater)	30	.4 mg/kg dwt	
PNEC sediment (marine water)	3.0	04 mg/kg dwt	
PNEC (Soil) PNEC (soil)	29	.5 ma/ka dwt	
- ()			
PNEC (STP)			

PNEC sewage treatment plant 100 mg/l

Toluene

Component	The United Kingdom	European Union	Ireland
Toluene	STEL: 100 ppm 15 min	TWA: 50 ppm 8 hr	TWA: 192 mg/m ³ 8 hr
	STEL: 384 mg/m ³ 15 min	TWA: 192 mg/m ³ 8 hr	TWA: 50 ppm 8 hr
	TWA: 50 ppm 8 hr	STEL: 100 ppm 15 min	STEL: 384 mg/m ³ 15 min
	TWA: 191 mg/m ³ 8 hr	STEL: 384 mg/m ³ 15 min	STEL: 100 ppm 15 min
	Skin	Skin	Skin

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography Derived No Effect Level (DNEL)

Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral				8.13 mg/kg bw/day
Dermal				384 mg/kg bw/day
Inhalation	384 mg/m ³	384 mg/m ³	192 mg/m ³	192 mg/m ³

Predicted No Effect Concentration (PNEC)

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified. See values below.

Fresh water	0.68 mg/l
Fresh water sediment	16.39 mg/kg
Marine water	0.68 mg/l
Marine water sediment	16.39 mg/kg
Water Intermittent	0.68 mg/l
Microorganisms in sewage treatment	13.61 mg/l
Soil (Agriculture)	2.89 mg/kg

Component	The United Kingdom	European Union	Ireland
Methanol	WEL – TWA 200ppm	TWA: 200 ppm 8 hr	TWA: 260 mg/m ³ 8 hr
	WEL - TWA 266 mg/m ³	TWA: 260 mg/m ³ 8 hr	TWA: 200 ppm 8 hr
	WEL – STEL 250ppm	_	STEL: 780 mg/m ³ 15 min
	WEL – STEL 333 mg/m ³		STEL: 600 ppm 15 min
	Skin	Skin	Skin
Component	The United Kingdom	European Union	Ireland
Methanol	WEL – TWA 200ppm	TWA: 200 ppm 8 hr	TWA: 260 mg/m ³ 8 hr
	WEL - TWA 266 mg/m ³	TWA: 260 mg/m ³ 8 hr	TWA: 200 ppm 8 hr
	WEL – STEL 250ppm	_	STEL: 780 mg/m ³ 15 min
	WEL – STEL 333 mg/m ³		STEL: 600 ppm 15 min
	Skin	Skin	Skin

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

Derived No Effect Level (DNEL)

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Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral				
Dermal		20 mg/kg bw/day		20 mg/kg bw/day
Inhalation	130 mg/m ³	130 mg/m ³	130 mg/m ³	130 mg/m ³

Predicted No Effect Concentration (PNEC)

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified. See values below.

Fresh water	
Fresh water sediment	
Marine water	
Microorganisms in sewage treatment	
Soil (Agriculture)	

Component	The United Kingdom	European Union	Ireland
Isopropanol Alcohol	STEL: 500 ppm 15 min		TWA: 200 ppm 8 hr
	STEL: 1250 mg/m ³ 15 min		STEL: 1400 ppm 15 min
	TWA: 400 ppm 8 hr		
	TWA: 999 mg/m ³ 8 hr		
	Skin		Skin

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography

154 mg/l 570.4 mg/kg 15.4 mg/l 100 mg/l 23.5 mg/kg

MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

Derived No Effect Level (DNEL)

Route of exposure	Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
Oral				
Dermal				888 mg/kg
Inhalation				500 mg/m ³

Predicted No Effect Concentration (PNEC)

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified. See values below.

Fresh water	140.9 mg/l
Fresh water sediment	552 mg/kg
Marine water	140.9 mg/l
Water Intermittent	140.9 mg/l
Food chain	160 mg/kg
Microorganisms in sewage treatment	2251 mg/l
Soil (Agriculture)	28 mg/kg

Component	CAS-No	Value	Control Parameters	Basis
Dichloromethane	75-09-2	TWA	100ppm	WK. EH40 WEL – Workplace
			353 mg/m ³	Exposure Limits

Remarks: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity

	TWA	100 ppm 353 mg/m³	Europe. Commission Directive 2017 / 164 / EU establishing a
			fourth list of indicative
			occupational expectite limit

Remarks: Identifies the possibility of significant uptake through the skin

	STEL	200 ppm	Europe. Commission Directive		
		706 mg/m ³	2017 / 164 / EU establishing a		
		-	fourth list of indicative		
			occupational exposure limit		
Pomarke: Identifies the possibility of significant untake through the skin					

Remarks: Identifies the possibility of significant uptake through the skin

		STEL	200 ppm 706 mg/m³	UK. EH40 WEL – Workplace Exposure Limits
Pamarka: Can be absorbed through the akin. The appianed substances are these for which there are concerns that dermal absorption will lead to				

Remarks: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity

Biological occupational exposure limits

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Component	CAS No.	Parameters	Value	Biological Specimen	Basis
Dichloromethane	75-09-2	Carbon Monoxide	30 parts per million	End-tidal breath	UK. Biological monitoring guidance values

Remarks: After shift

Derived No Effect Level (DNEL)

Application Area	Routes of Exposure	Health Effect	Value
Worker DNEL Acute	Inhalation	Systemic effects	706 mg/m ³
Worker DNEL longterm	Inhalation	Systemic effects	353 mg/m ³
Worker DNEL longterm	Dermal	Systemic effects	
Consumer DNEL longterm	Oral	Systemic effects	
Consumer DNEL longterm	Dermal	Systemic effects	
Consumer DNEL longterm	Inhalation	Systemic effects	88.3 mg/m ³
Consumer DNEL acute	Inhalation	Systemic effects	353 mg/m ³

Predicted No Effect Concentration (PNEC)

Compartment	Value
Fresh water	0.54 mg/l
Fresh water sediment	4.47 mg/kg
Sea Water	0.194 mg/l
Sea sediment	1.61 mg/kg
Aquatic intermittent release	0.27 mg/l
Sewage treatment plant	26 mg/l
Soil	0.583 mg/kg

8.2 Exposure Controls

Provide adequate ventilation including appropriate local extraction to ensure that the defined workplace exposure limit (WEL) is not exceeded When mists or sprays are produced work under fume extraction Ventilation systems and extraction systems should be flame-proof
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Use suitable eye protection. (EN166): tightly fitting safety goggles. Have facilities in place to wash eyes in case of contact
Use protective gloves Viton rubber (fluor rubber) Polyvinyl alcohol (PVA) For gloves involving total immersion 1.mm thickness (if available) are recommended at least 0.5mm and breakthrough time of >480 minutes For splash resistance use minimum 0.5mmthickness and breakthrough time >240 minutes Be aware that the liquid may penetrate the gloves Frequent change is advisable The most suitable glove must be chosen in consultation with the gloves supplier who can inform about the breakthrough time of the glove material Gloves showing signs of degradation should be changed to avoid skin contamination When removing used gloves apply proper technique by avoiding skin contact with outer surface Gloves should carry the CE mark and conform to BS EN374 chemicals and micro-organisms When packages of the product are being handled during storage or transport it is advisable to wear protective gloves to prevent damage to the skin
Wear suitable protective clothing as protection against splashing or contamination Provide eyewash station and safety shower Wear plastic apron and full length gloves if handling large amounts If there is a risk of splashing then wear a face shield Wear suitable protective clothing during transport, handling and storage operations connected with the product Wear protective footwear during handling of the product When treating spillages it is recommended to wear protective boots, consult with the supplier as to the compatibility Wear anti-static footwear Protective clothing should conform to the general requirements of EN340:2003. Also consider EN13034:2005; EN14605:2005: EN943:2002 dependent upon the situation resulting in exposure

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	Safety footwear should conform to standard EN344 – 347 If handling large amounts it is recommended to have a safety shower
Respiratory Protection	Wear suitable respiratory protection if vapours are generated When the concentration of atmospheric vapours is sufficient to cause skin irritation it is advisable to wear full face respiratory protection Chemical respirator with organic vapour cartridge; Type A Consult with the supplier as to the compatibility of the equipment with the chemical of concern Respiratory protection should conform to the following standards: BS EN136: Full face masks BS EN140: Half-face masks
	CAUTION: Air purifying respirators do not protect the user in oxygen deficient atmospheres, use are supplied system
	Powered air respirators should meet requirements of EN146 and EN12941
	Airline fed respirators should meet the requirements of EN270 and EN1835
	When vapours are generated during spill clean-up operations and exposure of operators is likely then respiratory equipment should be worn
	Respiratory protection should be maintained in a proper condition and inspected at the frequency specified by current legislation
Hygiene measures	Wash hands at the end of each work shift and before eating, smoking or using bathroom facilities
	Remove clothing when contamination will result in exposure to the substance, segregate and wash before re-use
	Do not eat, drink or smoke in the work area
Control of environmental exposure	Prevent product from entering drains Do not allow material to contaminate ground water system Local authorities should be advised if significant spillages cannot be contained Comply with applicable Community environmental protection legislation

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Appearance Molecular mass Odour Characteristic Ester Odour threshold pH Melting point / Freezing point Initial boiling point and boiling range Flash point Evaporation rate (butylacetate=1) Flammability (solid, gas) Upper / lower flammability or explosive limits Vapour Pressure Vapour Pressure Vapour density Relative density Water solubility Partition coefficient: n-octanol/water Autoignition temperature Decomposition temperature Viscosity Explosive properties	Clear colourless liquid No data available Pungent petroleum-like odour No data available 5 - 9 No Data Available No Data Available No Data Available No data available Highly flammable liquid and vapour Upper explosion limit: Not determined Lower explosion limit: Not determined 240 hPa @ 20°C No data available 0.82 - 0.88 kg/m ³ @ 20°C No data available No data available
Explosive properties Oxidising properties Explosive limits	No data available Non oxidising material according to EC criteria Can form explosive vapour / air mixtures
9.2 Other safety information	

VOC content

100 %

SECTION 10: Stability and Reactivity

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10.1 Reactivity

Highly flammable liquid and vapour. Can react with strong acids and oxidising agents Reference to other sections: 10.4 & 10.5.

10.2 **Chemical Stability**

Stable when stored in sealed container at normal temperatures and in a suitable location Evaporation will occur if the containers are not sealed correctly Agitation of the substance in storage containers may produce a build-up of electrostatic charge Forms explosive mixtures with are

10.3 **Possibility of Hazardous Reactions**

Hazardous reactions as specified in section 10.1 There will be immense pressure build up under explosive conditions causing sealed containers to rupture Do not mix materials known to cause hazardous reactions May react violently or exothermically Hazardous polymerisation

10.4 Conditions to Avoid

Avoid sources of heat and ignition Avoid direct sunlight and moisture Avoid storage with incompatible materials Avoid storage in freezing conditions Avoid storage near to unprotected drainage systems It is advisable to store the product within some form of containment to prevent spillage reaching drainage systems Avoid situations that would produce vibration or agitation of the substance in storage containers as there is potential to build up static charge particularly in metal or compatible plastic containers Do not allow the storage container to be left exposed to the atmosphere Avoid storage in unstable manner or in a situation that would result in exposure of the product Safe handling: See section 7

10.5 **Incompatible Materials**

Some plastics, rubber and coatings Strong oxidising substances

10.6 **Hazardous Decomposition Products**

Thermal decomposition generates: Carbon oxides (COCO2), fume. May release flammable gases

SECTION 11: Toxicological Information

Information on toxicological effects 11.1

Acute Toxicity (oral)	Not classified (Based on available data, the classification criteria are not met)
Acute Toxicity (dermal)	Not classified (Based on available data, the classification criteria are not met)
Acute Toxicity (inhalation)	Not classified (Based on available data, the classification criteria are not met)

Xylenes	
LD50/oral/mouse	5251 mg/kg
LD50/dermal/rabbit	4200 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	29091 mg/l/4h

Skin corrosion / irritation

Dose

4 (Semi-occlusive contact) hr Rabbit 2.21 (average erythema and oedema for both intact and abraded skin) Primary dermal irritation (PDI) Other registered information classes xylenes as either moderately irritating or non-corrosive Moderately irritating Human skin model test No information available

Serious eye damage / eye irritation Moderately irritating

0.1 ml sample; Draize system - 24, 48 and 72 hour observation periods Average eye irritation scores; 24 hours - 8.33; 48 hours - 6.66; 72 hours - 4.67

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Respiratory or skin sensitisation Respiratory sensitisation – no information availabl Skin sensitisation	e Mouse Xylene is not classed as a skin sensitiser, but this score indicates a very slight positive result (>3.0)
Can cause dermatitis on prolonged or repeated ex OECD Guideline 429 (Skin Sensitisation Local Lyr	xposure nph Node Assay). Simulation Index = 3.1
Germ cell mutagenicity Genotoxicity Chromosome aberration Tests on hamster ovary Genotoxicity Chromosome aberration Tests on mice and rats	In vitro All registered tests gave negative results Negative. EU Method B. 19 In vitro All registered tests gave negative results Negative. OECD 478 (Genetic toxicology)
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity Reproductive Toxicity One-generation study NOAEC = 500ppm for systemic and reproductive to Exposure	Fertility Dose Level 0, 60, 250, 500 ppm Inhalation. Rat P toxicity 6 hours / day, 5 days / week, for 131 days
Reproductive Toxicity Development toxicity Exposure Foetal toxicity was observed at 1000 and 2000ppr No teratogenic effects up to 2000ppm	Development NOAEC 500 ppm Inhalation. Rat 6 hours / day for 21 days. OECD Guideline 414 n
Specific target organ toxicity – repeated exposure STOT Dose Level OECD Guideline Target organs Increased liver weight (males) – LOAEL = 150 mg Increase liver weight (females) – NOAEL = 150 mg Reduction in body weight gain (males) – NOAEL =	Repeated exposure 0, 150 750, 1500 mg/kg Oral. Rat 408. 90 day exposure Liver, kidneys /kg g/kg = 750 mh/kg
General information	
Exposure via inhalation: 1ppm = odour threshold	100 – 200ppm = eye, nose and throat irritation, short term memory change 300ppm = impairment of reaction time and short term memory >3000ppm = CNS depression confusion and coma 10.000ppm = CNS depression, lung congestion and death
Exposure via ingestion	50 mg/kg = estimated fatal dose in adults
Inhalation Immediate: Low concentration	Headache
Immediate: High Concentration	Dizziness Irritation of the respiratory system Nausea Fatigue Central Nervous System depression
Ingestion Immediate: Low concentration Immediate: High Concentration	Irritation of the mouth and oesophagus Drowsiness Dizziness Disorientation Vertigo Nausea Vomiting Central Nervous System depression
Delayed	Heart problems and coma May cause liver and/or renal damage
Skin contact Immediate	Irritation delayed Prolonged or repeated contact may cause dermatitis Product has defatting effect on skin
Eye Contact	
28/02/2023	EN (English)

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Immediate Delayed	Irritatin Visual Inflamr Twitchi	g to eyes disturbances incl nation ing of the eyelid	uding blurred vision		
Propan-2-one, propanone, Acetone					
LD50 oral rat		5800 mg/kg			
LD50 dermal rabbit		7400 mg/kg boo	lyweight		
LC50 inhalation rat (Vapours – mg/l/4	h)	76 mg/l/4h			
Skin corrosion/irritation Not classi Additional information Repeated		ssified (Based or ted exposure may	available data, the classificat v cause skin dryness or cracki	on criteria are not met) ng	
Serious eye damage/irritation Respiratory or skin sensitisation Additional information	Cause This pr Based	s serious eye irrita oduct does not ca on available data	ation ause skin sensitisation , the classification criteria are	not met	
Germ cell mutagenicity Additional information	Not cla Based	ssified (Based or on available data	available data, the classificat , the classification criteria are	on criteria are not met) not met	
Carcinogenicity Additional information	Not cla Based	ssified (Based or on available data	available data, the classificat , the classification criteria are	on criteria are not met) not met	
Reproductive toxicity Additional information	Not cla Based	ssified (Based or on available data	available data, the classificat , the classification criteria are	on criteria are not met) not met	
STOS – single exposureMay cauSTOT – repeated exposureNot classAdditional informationBased or		ause drowsiness o ssified (Based or on available data	use drowsiness or dizziness ssified (Based on available data, the classification criteria are not met) on available data, the classification criteria are not met		
Propan-2-one, propanone, Acetone NOAEL (oral – rat 90 days)		900 ma/ka body	/weight/day		
Aspiration hazard Additional information	Not cla Based	ssified (Based or on available data	available data, the classificat , the classification criteria are	on criteria are not met) not met	
Toluene					
Component	LD50 Oral		LD50 Dermal	LC50 Inhalation	
Toluene	>5000 mg/	kg (Rat)	12000 mg/kg (Rabbit)	26700 ppm (Ra	at) 1h
Skin corrosion / irritation Test method Test species Observational endpoint		Category 2 OECD 404 Rabbit Irritating to sk	'n		
Serious eye damage / eye irritation		Not classified	(Based on available data, the	classification criteria are not me	et)
Respiratory or skin sensitisation		Not classified (Based on available data, the classification criteria are not met)			
Germ cell mutagenicity		Not classified (Based on available data, the classification criteria are not met)			
Carcinogenicity		Not classified (Based on available data, the classification criteria are not met) There are no known carcinogenic chemicals in this product			
Reproductive toxicity Reproductive effects Developmental effects Teratogenicity		Category 2 Experiments have shown reproductive toxicity effects on laboratory animals Developmental effects have occurred in experimental animals Possible risk of harm to the unborn child			
Specific target organ toxicity – single exposure Result / Target organs		Category 3 Central Nervo	Category 3 Central Nervous System (CNS)		
Specific target organ toxicity – repeated exposure Target organs		Category 2 Liver Kidney Central Nervo Blood Spleen Neuropsychol Eyes	us System (CNS) ogical effects		

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Aspiration Hazard		Category 1		
Symptoms / effects both acute and delayed		May cause central nervous system depression In halation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting		
Methanol				
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Methanol	>1187 - 2769 mg/kg (Rat)	17100 mg/kg (Rabbit)	128.2 mg/l (Rat) 4h	
Skin corrosion / irritation	Based or	n available data, the classification crite	eria are not met	
Serious eye damage / eye irritation	Based or	n available data, the classification crite	eria are not met	
Respiratory or skin sensitisation	Based or	n available data, the classification crite	eria are not met	
Component	Test method	Test species	Study Result	
Methanol	OECD Test guideline 406 Guinea Pig Maximisation Tes (GPMT)	Guinea pig	Non-sensitising	
Germ cell mutagenicity		Based on available data, the classification criteria are not met		
Carcinogenicity are no kr		Based on available data, the classification criteria are not met There nown carcinogenic chemicals in this product		
Reproductive toxicity	Based or	n available data, the classification crite	eria are not met	
Component	Test method	Test species / Duration	Study Result	
Methanol (CAS No 67-56-1 (>95)	OECD Test guideline 416	Rat / Inhalation 2 Generation	NOAEC = 1.3 mg/l (air)	
Developmental effects	Compone	ent substance is listed on California P	roposition 65 as a developmental hazard	
STOT – single exposure Results		Category 1 Optic nerve Central nervous system (CNS)		
STOT – repeated exposure		Based on available data, the classification criteria are not met		
Target organs		None known		
Aspiration Hazard		Based on available data, the classification criteria are not met		
Symptoms / effects both acute and delayed		May cause blindness Inhalation of high vapour concentrations may cause symptoms like headache, dizziness tiredness, nausea and vomiting		

Ears

Isopropanol			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropanol Alcohol	5045 mg/kg (Rat) 3600 mg/kg (Mouse	12800 mg/kg (Rat)	72.6 mg/l (rat) 4hr
Skin corrosion / irritation	Not classified (Based o	on available data, the classification	criteria are not met
Serious eye damage / eye irritation	Category 2		
Respiratory or skin sensitisation	Not classifie	d (Based on available data, the clas	ssification criteria are not met)
Germ cell mutagenicity	Not classifie	d (Based on available data, the clas	ssification criteria are not met)

Not classified (Based on available data, the classification criteria are not met)

Not classified (Based on available data, the classification criteria are not met)

There are no known carcinogenic chemicals in this product

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity - single exposure

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Result / Target organs	Central Nervous System (CNS)
Specific target organ toxicity – repeated	Not classified (Based on available data, the classification criteria are not met)
exposure Aspiration Hazard	Not classified (Based on available data, the classification criteria are not met)
Symptoms / effects both acute and delayed	May cause central nervous system depression In halation of high vapour concentrations may cause symptoms like headace, dizziness, tiredness, nausea and vomiting
Dichloromethane Acute Toxicity	LD50 Oral – Rat – male and female - >2,000 mg/kg (OECD Test Guideline 401) LC50 Inhalation – Mouse – 4h – 86 mg/l
	LD50 Dermal – Rat – Male and female - > 2,000 mg/kg (OECD Test Guideline 402)
Skin corrosion / irritation	Skin – Rabbit Result: Irritations – 4 h OECD Test Guideline 404) Repeated or prolonged exposure may cause skin irritation and dermatitis due to degreasing properties of the product
Serious eye damage / eye irritation	Eyes – rabbit Result: eye irritation Remarks: (ECHA) Risk of corneal clouding
Respiratory or skin sensitisation	Local lymph node assay (LLNA) – Mouse Result – negative (OECD Test guideline 429)
Germ cell mutagenicity	Test type: Mutagenicity (mammal cell test): chromosome aberration Test system: Chinese hamster ovary cells Metabolic Activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: Positive
	Test type: Ames test Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: positive
	Test type: In vivo micronucleus test Species: Mouse Cell type: Bone marrow Application Route: oral Method: OECD Test Guideline 474 Result: negative
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity – single exposure	Inhalation: may cause drowsiness or dizziness – Central nervous system
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available

11.2 Additional Information

No additional information

Propan-2-one, propanone, Acetone	
Viscosity, kinematic	0.405 mm²/s

Potential adverse human health effects and symptoms

Based on available data, the classification criteria are not met

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SECTION 12: Ecological Information

12.1 Toxicity

Ecology - general

The product is not considered harmful to aquatic organism nor to cause long-term adverse effects in the environment

Component	Freshwater Fish	Water Flea	Freshwater Algae
Xylenes	LC50: = 780 mg/l, 96h semi-static (Cyprinus carpio) LC50: 23.53 - 29.97 mg/l, 96h static (Pimephales promelas) LC50: > 780 mg/l, 96h (Cyprinus carpio) LC50: 30.26 - 40.75 mg/l, 96h static (Poecilia reticulata) LC50: 7.711 - 9.591 mg/l, 96h static (Lepomis macrochirus) LC50: = 19 mg/l, 96h (Lepomis macrochirus) LC50: 13.1 - 16.5 mg/l, 96h flow- through (Lepomis macrochirus) LC50: 13.5 - 17.3 mg/l, 96h (Oncorhynchus mykiss) LC50: 2.661 - 4.093 mg/l, 96h static (Oncorhynchus mykiss) LC50: = 13.4 mg/l, 96h flow- through (Pimephales promelas)	LC50: = 0.6 mg/L, 48h (Gammarus lacustris) EC50: = 3.82 mg/l	

Component	Microtox	M-Factor
Xylenes	EC50 = 0.0084 mg/l 24 h	

Acetone

Acute aquatic toxicity Chronic aquatic toxicity Not classified Not classified

Acetone

LC50 fish 1	5540 mg/l Onchorhynchus mykiss (Rainbow trout)
EC50 Daphnia 1	8800 mg/l

Toluene

Component	Freshwater Fish	Water Flea	Freshwater Algaw
Toluene	50-70 mg/L LC50 96h 5-7 mg/L LC50 96h 15-19 mg/L LC50 96h 28 mg/L LC50 96h 12 mg/L LC50 96h	EC50: = 11.5 mg/L, 48h (Daphnia magna) EC50: 5.46 - 9.83 mg/L, 48h Static (Daphnia magna)	EC50: = 12.5 mg/L, 72h static (Pseudokirchneriella subcapitata) EC50: > 433 mg/L, 96h (Pseudokirchneriella subcapitata)

Component	Microtox	M-Factor
Toluene	EC50 = 19.7 mg/L 30 min	

Component	Freshwater Fish	Water Flea	Freshwater Algaw
Methanol	Pimephales promelas: LC50 >10000 mg/l 96h	EC50 >10000 mg/l 24h	
Component	Microtox		M-Factor
Methanol	EC50 = 39000 mg/l EC50 = 40000 mg/l	25 min 15 min	

EC50 = 43000 mg/l 5 min			
Component	Freshwater Fish	Water Flea	Freshwater Algaw
Isopropanol	LC50 = 9640 mg/l 96h	13299 mg/l EC50 = 48 h	EC50 >1000 mg/l 96h
	Flow through (Pimephales	9714 mg/l EC50 = 24 h	(Desmodesmus subspicatus)
	promelas)	_	EC50 >1000 mg/l 72h

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	LC50 >1400000 μ g/l, 96h (Lepomis macrochirus LC50 = 11130 mg/l, 96 static (Pimephales promelas) LC50 = 10000000 μ g/l, 96h (Daphnia)	(Desmodesmus subspicatus)
Ormanat		

Component	Microtox	M-Factor
Isopropanol	=35390 mg/I EC50 Photobacterium phosphoreum 5 min	

Dichloromethane

Toxicity to fish

Flow-through test LC50 - Pimephales promelas (fathead minnow) - 193.00 mg/l - 96h Remarks: (ECHA)

Toxicity to daphnia and other aquatic invertebrates Static test LC50 - Daphnia magna (Water flea) - 27 mg/l - 48 h (US-EPA)

Toxicity to bacteria

Static test EC50 - activated sludge - 2,590 mg/l - 40 min (OECD Test Guideline 209)

12.2 Persistence and Degradability

Xylenes

Persistence and degradability	Persistence is unlikely
Biodegradation	Contains substances known to be hazardous to the environment or not degradable
	in waste water treatment plants

Acetone

	Persistence and degradability	Readily biodegradable
	Biodegradation	90 % after 28 days
т.	Taluana	
10	olliene	

Persistence Persistence is unlike based on information available	 Ulucite and a second seco		
	Persistence	Persistence is unlike based on information available	
	Degradability	86% (20d)	

Methanol

Persistence	Persistence is unlike based on information available
Degradability	DT50 ~ 17.2d
	>94% after 20d

Isopropanol / Isopropyl Alcohol

Persistence and degradability	Persistence is unlike based on information available
Biodegradation	Expected to be biodegradable

Dichloromethane

Biodegradability

Aerobic – Exposure time 28d Result: 68% - Readily biodegradable (OECD Test Guideline 301D)

12.3 **Bioaccumulative Potential**

Component	Log Pow	Bioconcentration factor (BCF)
Xylenes	3.15	0.5 - 15

Acetone

~	ACCIONE		
	Log Pow	-0.23	
	Bioaccumulative potential	Low	

Toluene

Log Pow	2.7
Bioconcentration Factor (BCF)	90

Methanol

Log Pow	-0.77 @ 20°C
Bioconcentration Factor (BCF)	<10
Isopropanol / Isopropyl Alcohol	
Log Pow	0.05

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Dichloromethane Bioaccumulation

Cyprinus carpio (Carp) – 6 weeks - 250 µg/l (Dichloromethane)

Bioconcentration factor (BCF): 2 – 5.4 (OECD Test Guideline 305)

Cyprinus carpio (Carp) – 6 Weeks - 25 µg/l (Dichloromethane)

Bioconcentration factor (BCF): 6 – 40 (OECD Test Guideline 305)

12.4 Mobility in Soil

Xylenes

Spillage unlikely to penetrate soil

The product is insoluble and float on water Is not likely mobile in the environment due to its low water solubility

Acetone

Surface tension	23.3 mN/m	
Ecology - soil	Product evaporates when in contact with the air	

Toluene

Mobility in soil	This product contains volatile organic compounds (VOC) which will evaporate	
	easily from all surfaces.	
	Spillage unlikely to penetrate soil	
	This product is insoluble and floats on water	
	Is likely mobile in the environment due to its low water solubility	
Surface tension	27.73 mN/m at 25 °C	

Methanol

Mobility in soil	ty in soil This product contains volatile organic compounds (VOC) which will evaporate	
	easily from all surfaces.	
	Disperses rapidly in air	
	Is likely mobile in the environment due to its low water solubility	
Surface tension	0.02255 N/m @ 20°C	

Isopropanol / Isopropyl Alcohol

Mobility in soil	This product contains colatile organic compounds (VOC) which will evaporate
	easilt from all surfaces.
	Will like be mobile in the environment due to its volatility
	Disperses rapidly in air
Surface tension	22.7 mN/m at 20°C

Dichloromethane

No data available

12.5 Results of BPT and vPvB Assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels 0.1% or higher

12.6 Endocrine Disrupting Properties

Endocrine disruptor information

This product does not contain any known or suspected endocrine disruptors

12.7 Other Adverse Effects

Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected substance

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

Waste from residues /	unused	products
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Waste is classified as hazardous Dispose of in accordance with European Directives on waste and hazardous waste Dispose in accordance with local regulations

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Contamir	nated packaging	Avoid release to the environment. Dispose of empty containers and waste Safe handling: see section 7. Refer to manufacturer/supplier for inform Empty containers retain product residue	s safely. nation on recovery/recycling. e (liquid and/or vapour) and can be dangerous	
Additional information		Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid the build-up of electrostatic charge Notice directive on waste 2008/98/EC		
Europear	n waste catalogue (2001/573/EC, 75/442	/EEC, 91/689/EEC This material and its container must be Waste codes should be assigned by the authorities.	disposed of as hazardous waste. a user, preferably in discussion with the waste disposal	
Other Information		Do not flush to sewer Waste codes should be assigned by the user based on the application for which the product was used Can be landfilled or incinerated when in compliance with local regulations Do not let this chemicals enter the environment		
SECT	npty into drains ION 14: Transport Information			
14.1	UN Number			
ADR/RID	: 1263	IMDG: 1263	IATA: 1263	
14.2	UN Proper Shipping Name			
ADR/RID IMDG: IATA:	: Paint Related Material Paint Related Material Paint Related Material			
14.3	Transport Hazard Class(es)			
ADR/RID	: Class 3, Flammable	IMDG: Class 3, Flammable	IATA: Class 3, Flammable	
Transpor	t Labels:	V		
14.4	Packaging Group			
ADR/RID	: II	IMDG: II	IATA: II	
14.5	Environmental Hazards			
Dangerou Marine po	us for the environment ollutant	No No		
14.6	Special Precautions for User			
Overland	Transport			

Classification code (ADR)	F1
Limited quantities (ADR)	1L
Excepted quantities (ADR)	E2
Packing instructions (ADR)	P001, IBC02, R001
Mixed packing provisions (ADR)	MP19
Portable tank and bulk container instructions (ADR)	T4
Portable tank and bulk container special provisions (ADR)	TP1
Tank code (ADR)	LGBF
Vehicle for tank carriage	FL
Transport category (ADR)	2
Special provisions for carriage – Operation (ADR)	S2, S20
Hazard identification number (Kemler No.)	33
Tunnel restriction code	D/E

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EAC code

2YE

Transport by sea No data available Air Transport No data available

Inland Waterway Transport No data available

Rail Transport No data available

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Code: IBC

No data available

SECTION 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

No REACH Annex XVII restrictions Acetone is not on the REACH candidate list Acetone is not on the REACH Annex XIV list Acetone is not subject to Regulation (EU) No 649/2012 of the European Parliament and the Council of 4 July 2012 concerning the export and import of hazardous chemicals

Acetone is not subject to Regulation (EC) No 850/2004 of the European Parliament and the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

SECTION 16: Other Information

Abbreviations and acronyms

ADN	Europeans Agreement concerning the International Carriage of Dangerous Goods by inland waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by road
CLP	Classification labelling packaging regulation; Regulation (EC) No 1272/2008
DNEL	Derived No-effect level
DMEL	Derived minimal-effect level
LC50	Median lethal concentration
LD50	Median lethal dose
NOAEL	No-observed adverse effect level
IMDG	International maritime dangerous goods
IATA	International Air Transport Association
EC50	Median effective concentration
PNEC	Predicted No-effect concentration
PBT	Persistent Bioaccumulative toxic
REACH	Reach, Evaluation, Authorisation and Restriction of Chemicals (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by rail
SDS	Safety Data Sheet
vPvB	Very persistent and very bioaccumulative
STP	Sewage treatment plant

Data sources

REGULATION (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending regulation (EC) No 1907/2006

Full test of H and EUH Statements referred to	under sections 2 and 3
Flam. Liq. (Category 2)	H225
Aspiration Toxicity (Category 1)	H304
Acute Dermal Tox (Category 4)	H312
Acute Inhalation Tox – vapours (Category 4)	H332
Skin corrosion/irritation (Category 2)	H315
Eye irritation (Category 2)	H319
STOT SE (Category 2)	H373
Chronic aquatic toxicity (Category 3)	H412
Reproductive toxicity (Category 2)	H361
Specific target organ toxicity - single exposure	e (Category 3) Narcosis
	H336

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Specific target organ toxicity – repeated exposure (Category 2) H373

H225 H304 H312+H332	HighlyFlammable liquid and vapour May be fatal if swallowed and enters airways
	Harmful in contact with skin or if inhaled
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H412	Harmful to aquatic life with long lasting effects
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated exposure

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.