

1. Identification

1.1. Product Identifier

Product name	Universal Thinner
Product code	600 Universal Thinner 555 Fast Thinner 650 Slow Thinner
Other means of identification	Batch tag

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product use Industrial use. Professional use.

Use of the substance/mixture Thinner/virgin solvents

Details of the supplier of the safety data sheet

MK1 Paints Ltd
58 Perry Street,
Wednesbury
West Midlands
WS10 0AZ

0121 5020050

E-mail address of person responsible purchase@mk1paints.co.uk
for this SDS

1.3. Emergency telephone number of Supplier

Telephone number Company emergency telephone number 0121 5020050

2. Hazards identification

2.1. Classification of the substance or mixture

Product definition Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flammable liquids, Category 3 H226

Skin corrosion/irritation, Category 2 H315

Serious eye damage/eye irritation, Category 2 H319

Specific target organ toxicity — Single exposure, Category 3, Narcosis H336

Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation H335

Specific target organ toxicity — Repeated exposure, Category 2 H373

Aspiration hazard, Category 1 H304

Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

Harmful if inhaled, Category 4 H332

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2. Label elements

Hazard pictograms



Signal word

Danger

Hazard statements

Highly flammable liquid and vapour.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May cause damage to organs through prolonged or repeated exposure.
Harmful to aquatic life with long lasting effects.

Precautionary statements

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Avoid breathing vapours, spray, fume.
Wash hands thoroughly after handling.
Wear face protection, protective clothing, protective gloves.
IF SWALLOWED: Immediately call a doctor. Do NOT induce vomiting.
If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Other hazards which do not result in classification Prolonged or repeated contact may dry skin and cause irritation.

3. Composition/information on ingredients

Substance/mixture

Mixture

Product/ingredient name	Identifiers	%	Classification
			Regulation (EC) No.1272/2008 [CLP]
n-butyl acetate [1]	CAS: 123-86-4 EC: 204-658-1 EC Index: 607-025-00-1 REACH: 01-2119485493-29	25-50	Flam. Liq. 3, H226 STOT SE 3, H336
Xylene [1][2]	CAS: 1330-20-7 EC: 215-535-7 EC Index: 601-022-00-9 REACH: 01-2119488216-32	35-60	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304

Product/ingredient name	Identifiers	%	Classification
			Regulation (EC) No.1272/2008 [CLP]
2-methoxy-1-methylethyl acetate [1]	CAS: 108-65-6 EC: 203-603-9 EC Index: 607-195-00-7 REACH: 01-2119475791-29	5-10	Flam. Liq. 3, H226
solvent naphtha (petroleum), light aromatic [3][4][5]	CAS: 64742-95-6 EC: 265-199-0 EC Index: 649-356-00-4 REACH: 01-2119455851-35	5-10	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
4-methylpentan-2-one	REACH #:01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	2.5-5	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335 (Respiratory tract irritation)

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Notes

- [1] Substance with a workplace exposure limit
- [2] Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- [3] The classification and labelling shown for this substance applies to the hazardous property(ies) indicated by the hazard statement(s) in combination with the hazard class(es) and category(ies) shown. The requirements of Article 4 for manufacturers, importers or downstream users of this substance apply to all other hazard classes and categories. For hazard classes where the route of exposure or the nature of the effects leads to a differentiation of the classification of the hazard class, the manufacturer, importer or downstream user is required to consider the routes of exposure or the nature of the effects not already considered.
- [4] The concentration limits for gaseous mixtures are expressed as volume per volume percentage
- [5] The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-P260-P262-P301 + P310 P331 shall apply.

Occupational exposure limits, if available, are listed in Section 8.

Full text of H- statements are listed in Section 16.

4. First aid measures

4.1. Description of first aid measures

Eye Contact	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

Skin contact	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2. Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	Eye irritation.
Inhalation	May cause respiratory irritation.
Skin contact	Irritation. May cause skin dryness and irritation.
Ingestion	Risk of lung oedema.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use dry chemical, CO ₂ , water spray (fog) or foam
Unsuitable extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Hazards from the substance or mixture	Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	Decomposition products may include the following materials: carbon dioxide carbon monoxide

5.3. Advice for firefighters

Special precautions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2. Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3. Methods and materials for containment and cleaning up

Small spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

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.

7. Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1. Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate
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ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2. Conditions for safe storage, including and incompatibilities

Storage temperature: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination

7.3. Specific end use(s)

Recommendations

Not available

8. Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1. Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 724 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
Xylene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 441 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.

Product/ingredient name	Exposure limit values
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 548 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 274 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
4-methylpentan-2-one ²	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 416 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 208 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following:

European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy)

European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents)

European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents)

Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs (workers)

Product/ingredient name	Exposure	Acute		Long term	
		Systemic	Local	Systemic	Local
n-butyl acetate	Oral	N/A	N/A	N/A	N/A
	Dermal	11mg/kg bw/day	N/A	11mg/kg bw/day	N/A
	Inhalation	600mg/m ³	600mg/m ³	300mg/m ³	300mg/m ³
Xylene	Oral	N/A	N/A	N/A	N/A
	Dermal	N/A	N/A	180mg/kg bw/day	N/A
	Inhalation	289mg/m ³	289mg/m ³	77mg/m ³	77mg/m ³
2-methoxy-1-methylethyl acetate	Oral	N/A	N/A	N/A	N/A
	Dermal	N/A	N/A	796mg/kg bw/day	N/A
	Inhalation	550mg/m ³	N/A	275mg/m ³	N/A

Product/ingredient name	Exposure	Acute		Long term	
		Systemic	Local	Systemic	Local
solvent naphtha (petroleum), light aromatic	Oral	N/A	N/A	N/A	N/A
	Dermal	N/A	N/A	25mg/kg bw/day	N/A
	Inhalation	N/A	N/A	150mg/m ³	N/A
4-methylpentan-2-one	Oral	N/A	N/A	N/A	N/A
	Dermal	N/A	N/A	12mg/kg bw/day	N/A
	Inhalation	208mg/m ³	208mg/m ³	83mg/m ³	83mg/m ³

DNELs (general population)

Product/ingredient name	Exposure	Acute		Long term	
		Systemic	Local	Systemic	Local
n-butyl acetate	Oral	2mg/kg bw/day	N/A	2mb/kg bw/day	N/A
	Dermal	6mg/kg bw/day	N/A	6mg/kg bw/day	N/A
	Inhalation	300mg/m ³	600mg/m ³	35.7mg/m ³	35.7mg/m ³
Xylene	Oral	N/A	N/A	1.6mg/kg bw/day	N/A
	Dermal	N/A	N/A	108mg/kg bw/day	N/A
	Inhalation	174mg/m ³	174mg/m ³	14.8mg/m ³	65.3mg/m ³
2-methoxy-1-methylethyl acetate	Oral	N/A	N/A	36mg/kg bw/day	N/A
	Dermal	N/A	N/A	N/A	N/A
	Inhalation	N/A	N/A	N/A	33mg/m ³
solvent naphtha (petroleum), light aromatic	Oral	N/A	N/A	11mg/kg bw/day	N/A
	Dermal	N/A	N/A	11mg/kg bw/day	N/A
	Inhalation	N/A	N/A	N/A	N/A
4-methylpentan-2-one	Oral	N/A	N/A	4.2mg/kg bw/day	N/A
	Dermal	N/A	N/A	4.2mg/kg bw/day	N/A
	Inhalation	155.2mg/m ³	155.2mg/m ³	14.7mg/m ³	14.7mg/m ³

PNEC

Product/Ingredient name	Environment	Value
n-butyl acetate	Fresh water	0.18mg/l
	Marine water	0.018mg/l
	Fresh water sediment	0.981mg/l
	Marine water sediment	0.0981mg/l
	Sewage Treatment	35.6mg/l
	Soil	0.0903 mg/kg

Product/Ingredient name	Environment	Value
Xylene	Fresh water	0.327mg/l
	Marine water	0.327mg/l
	Fresh water sediment	12.46mg/kg
	Marine water sediment	12.46mg/kg
	Sewage Treatment	6.58mg/l
	Soil	2.31mg/kg
2-methoxy-1-methylethyl acetate	Fresh water	0.635mg/l
	Marine water	0.0635mg/l
	Fresh water sediment	3.29mg/kg
	Marine water sediment	0.329mg/kg
	Sewage Treatment	100mg/l
	Soil	0.29mg/kg
4-methylpentan-2-one	Fresh water	0.6mg/l
	Marine water	0.06mg/l
	Sewage Treatment	27.5mg/l
	Soil	1.3mg/kg

8.2. Exposure controls

Appropriate engineering controls Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Hygiene measures Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection Safety glasses with side shields.

Skin protection

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Gloves nitrile rubber, butyl rubber, PVC, Viton®

Body protection Personal protective equipment for the body should be selected based on the task being performed and the risks involved and

Other skin protection	should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
Respiratory protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Environmental exposure controls	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state	Liquid
Colour	Colourless
Odour	Solvent-like
Odour threshold pH	Not available
Melting point/freezing point	Not available
Initial boiling point and boiling range	>114°C
Flash point	<23°C
Evaporation rate	Not available.
Material supports combustion	Yes
Flammability (solid, gas)	Flammable
Ignition temperature	315°C
Upper/lower flammability or explosive limits	Lower: 1% Upper: 10%
Vapour pressure @ 20°C	10.7kPa
Vapour density	0.875 – 0.885g/cm ³
Relative density	Not available
Solubility(ies)	Insoluble in the following materials: cold water.
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available

Viscosity	30 - <40 s (ISO 6mm)
Explosive properties	Not available
Oxidising properties	Not available

9.2. Other information

No additional information.

10. Stability and reactivity

10.1. Reactivity	Highly flammable liquid and vapour
10.2. Chemical stability	The product is stable under normal conditions.
10.3. Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4. Conditions to avoid	Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.
10.5. Incompatible materials	N/A
10.6. Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Product/Ingredient name	Result	Species	Dose	Exposure
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21mg/l	4 hours
	LC50 Inhalation Vapour	Rat	390ppm	4 hours
	LD50 Dermal	Rabbit	14112mg/kg	-
	LD50 Oral	Rat	10.768g/kg	-
Xylene	LD50 Oral	Rat	3523mg/kg	-
	LD50 Dermal	Rat	12126mg/kg	-
	LD50 Dermal	Rabbit	12126mg/kg	-
	LC50 Inhalation	Rat	6700ppm	4 hours
2-methoxy-1-methylethyl acetate	LD50 Oral	Rat	6190mg/kg	-
	LD50 Dermal	Rat	>2000mg/kg	-
	LD50 Dermal	Rabbit	>5000mg/kg	-
	LC50 Inhalation	Rat	1728ppm	4 hours
Solvent naphtha (petroleum), light aromatic	LD50 Oral	Rat	>5000mg/kg	-
	LD50 Dermal	Rabbit	>3160mg/kg	-
	LC50 Inhalation	Rat	>6.193mg/l	4 hours
4-methylpentan-2-one	LD50 Oral	Rat	2080mg/kg	-
	LC50 Inhalation	Rat	11.6mg/kg	4 hours

Conclusion/Summary

Not available

Acute toxicity estimates

Route	ATE Value
LD50 Dermal	3.333 mg/kg
LC50 Inhalation (vapours)	18.3 mg/l

Irritation/Corrosion

Conclusion/Summary Causes skin irritation

Serious eye damage/irritation

Conclusion/Summary Causes serious eye irritation

Mutagenicity

Conclusion/Summary Not available

Carcinogenicity

Conclusion/Summary Not available

Reproductive toxicity

Conclusion/Summary Not available

Specific target organ toxicity (STOT)- single exposure

May cause drowsiness or dizziness. May cause respiratory irritation.

Product/ingredient name	Effect
n-butyl acetate	May cause drowsiness or dizziness.
Xylene	May cause respiratory irritation.
2-methoxypropyl acetate	May cause respiratory irritation.
Solvent naphtha (petroleum), light aromatic	May cause drowsiness or dizziness. May cause respiratory irritation.
4-methylpentan-2-one	May cause respiratory irritation.

Specific target organ toxicity (STOT) - repeated exposure

Product/ingredient name	Effect
Xylene	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

May be fatal if swallowed and enters airways.

12. Ecological information

12.1. Toxicity

Product/ingredient name	Test	Species	Dose
n-butyl acetate	LC50 Fish	Pimephales promelas	18mg/l
	LC50 Fish	Leuciscus idus	62mg/l
	EC50 Crustacea	Daphnia sp.	44mg/l
	EC50 Algae 72h	Desmodesmus subspicatus	674.7mg/l
Xylene	LC50 Fish	Oncorhynchus mykiss	2.6mg/l
	EC50 Crustacea	Ceriodaphnia dubia	>3.4mg/l
	EC50 Algae 72h		2.2mg/l
2-methoxy-1-methylethyl acetate	LC50 Fish	Oryzias latipes	>100mg/l
	EC50 Crustacea	aphnia magna	>500mg/l
	EC50 Algae 72h	Pseudokirchneriella subcapitata	>1000mg/l
	EC50 Algae 96h	Pseudokirchneriella subcapitata	>1000mg/l
4-methylpentan-2-one	LC50 Fish	Danio rerio	>179mg/kg
	EC50 Crustacea	Daphnia magna	>200 mg/kg

12.2. Persistence and degradability

Product/ingredient name	Persistence and degradability
n-butyl acetate	Readily biodegradable in water.
Xylene	Biodegradable in the soil. Readily biodegradable in water.
2-methoxy-1-methylethyl acetate	Readily biodegradable in the soil. Readily biodegradable in water.
Solvent naphtha (petroleum), light aromatic	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF - Fish	Potential
n-butyl acetate	2.3	15.3	Low
Xylene	3.2	7.2 – 25.9	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
Solvent naphtha (petroleum), light aromatic	2.1 - 6	-	Low

12.4. Mobility in soil

Product/ingredient name	LogK _{ow}	Surface Tension	Potential
n-butyl acetate	1.268 – 1.844	0.0163N/m	Low
Xylene	2.73	28.01 – 29.76N/m	Highly mobile
2-methoxy-1-methylethyl acetate	0.264	29.4mN/m	Low

12.5. Results of PBT and vPvB assessment

PBT	Not applicable
vPvB	Not applicable

12.6. Other adverse effects No known significant effects or critical hazards.**13. Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1. Waste treatment methods**Recommendation**

Must not be disposed together with household refuse. Do not allow product to reach sewage system. Refer to the revised Waste Framework Directive (2008/98 EC) and the European Waste Catalogue (EWC). Substance is "hazardous" if it is classified as waste according to annex III of rWFD, subject to thresholds. Refer to "WM3: Hazardous Waste: Interpretation of the definition and classification of hazardous waste", located on Environment Agency website.

Uncleaned packaging**Recommendation**

Waste Solvent Disposal must be made according to official regulations. Refer to Hazardous Waste Regulations 2005. Requires movement under Consignment note by licensed waste carrier. We may be able provide this service - please contact us for more details. Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning. Please contact us if you wish to return your used packaging (205litre and IBC's only). Containers to be scrapped as waste must be cleaned so that no

hazardous substances remain, otherwise uncleaned containers containing residue for scrap will need to be consigned as hazardous waste as per WM3.

14. Transport information

	ADR/RID	AND	IMDG	IATA
14.1. UN number	UN1263	UN1263	UN1263	UN1263
14.2. UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL
14.3. Transport hazard class(es)	3	3	3	3
14.4. Packing group	III	III	III	III
14.5. Environmental hazards Marine pollutant substances	No. Not applicable	Yes. Not applicable	No. Not applicable	No. Not applicable

14.6. Special precautions for user

ADR limited quantities (LQ)	5L
ADR excepted quantities (EQ)	E1
ADR Transport category	3
ADR Tunnel restriction code	D/E
IMDG limited quantities (LQ)	5L
IMDG excepted quantities (EQ)	E1

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU Other EU regulations

Directive 2012/18/EU

Named dangerous substances - ANNEX I	None of the ingredients is listed.
Seveso category	P5c FLAMMABLE LIQUIDS
Qualifying quantity (tonnes) for the application of lower-tier requirements	5,000 t
Qualifying quantity (tonnes) for the application of upper-tier requirements	50,000 t

Other regulations, limitations and prohibitive regulations

The Dangerous Substances and Explosive Atmosphere Regulations (DSEAR)

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

16. Other information

Abbreviations and acronyms

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (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
WGK	Water Hazard Class

Full text of abbreviated H-statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled
H335	May cause respiratory irritation. (Respiratory tract irritation)
H336	May cause drowsiness or dizziness. (Narcotic effects)

H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
Aquatic Acute 1, H400	ACUTE AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	LONG-TERM AQUATIC HAZARD - Category 1
Aquatic Chronic 2, H411	LONG-TERM AQUATIC HAZARD - Category 2
Aquatic Chronic 3, H412	LONG-TERM AQUATIC HAZARD - Category 3
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

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