Part No: 04813R-MOA
PERSYN-5MOA

SAFETY DATA SHEET
Synthetic Thinner

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name Synthetic Thinner

Product number S141

Internal identification SWS

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

Identified uses PC9a: Coatings and paints, thinners, paint removers.

Uses advised against Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier

Solvents With Safety Ltd
Units 1-4
Plumtree Farm Industrial Estate
Harworth
Doncaster
DN11 8EW
United Kingdom
01302 711733
01302 711744
sales@solventswithsafety.co.uk

1.4. Emergency telephone number

Emergency telephone 0844 5605341 (24 Hours) (in use from 13/01/13)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226

Health hazards Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336

Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Danger

Synthetic Thinner

Hazard statements	H226 Flammable liquid and vapour. H312+H332 Harmful in contact with skin or if inhaled. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.
Precautionary statements	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing vapour/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P314 Get medical advice/ attention if you feel unwell. P403+P235 Store in a well-ventilated place. Keep cool.
Contains	XYLENE, ISO-BUTANOL, PROPAN-2-OL
Supplementary precautionary statements	P240 Ground/ bond container and receiving equipment. P241 Use explosion-proof electrical equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P264 Wash contaminated skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/ container in accordance with national regulations.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Xylene		**55-90%**
CAS number: 1330-20-7	EC number: 215-535-7	REACH registration number: 01-2119488216-32-XXXX

Classification
Flam. Liq. 3 - H226
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Irrit. 2 - H315

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iso-Butanol		**20-40%**
CAS number: 78-83-1	EC number: 201-148-0	REACH registration number: 01-2119484609-23-XXXX
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336		
Propan-2-ol		**<5%**
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25-XXXX
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information CAUTION! First aid personnel must be aware of own risk during rescue! Remove affected person from source of contamination. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Get medical attention immediately.

Inhalation Remove casualty from exposure ensuring one's own safety whilst doing so. If inhaled remove person to fresh air and keep comfortable for breathing.

Ingestion Do not induce vomiting. If conscious give 500ml of water to drink immediatley. wash out mouth with water. Consult a doctor.

Skin contact Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash skin thoroughly with soap and water. If irritation occurs get medical advice/attention.

Eye contact If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Transfer to hospital for specialist examination.

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

General information Get medical attention promptly if symptoms occur after washing.

Inhalation There may be irritation of the throat with a feeling of tightness in the chest.

Ingestion There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.

Skin contact There may be irritation and redness at the site of contact.

Eye contact There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.

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

Notes for the doctor If exposed or concerned get medical advice/attention.

Specific treatments Eye bathing equipment should be available on the premises.

Synthetic Thinner

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire. Water Spray may be used to keep fire exposed containers cool

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards The product is flammable. Heating may generate flammable vapours. Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. May explode when heated or when exposed to flames or sparks. Thermal decomposition or combustion products may include the following substances: Very toxic or corrosive gases or vapours. May form explosive or toxic mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Vapour explosion and poison hazard indoors, outdoors and in sewers.

Hazardous combustion products Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses. Cool containers exposed to flames with water until well after the fire is out. Move containers from fire area if it can be done without risk. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Ventilate closed spaces before entering them. Use water spray to reduce vapours. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment for firefighters Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid. Take precautionary measures against static discharge.

For non-emergency personnel Follow instructions given by emergency personnel.

For emergency responders Refer to this MSDS.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Contain the spillage using bunding. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Use only non-sparking tools.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

Synthetic Thinner

7.1. Precautions for safe handling

Usage precautions Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Avoid the formation of mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical/ventilating/lighting. Do not breathe mist/vapours/spray. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Use only non-sparking tools.

Advice on general occupational hygiene Take off contaminated clothing and wash it before re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place.

Storage class Flammable liquid storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Long-term exposure limit (8-hour TWA): WEL 50 ppm 154 mg/m³
Short-term exposure limit (15-minute): WEL 75 ppm 231 mg/m³

Xylene

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 220 mg/m3(Sk)
Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 441 mg/m3(Sk)

iso-Butanol

Long-term exposure limit (8-hour TWA): WEL 50 ppm 154 mg/m³
Short-term exposure limit (15-minute): WEL 75 ppm 231 mg/m³

Propan-2-ol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³
Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³
WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

DNEL No data available.

PNEC No data available.

Xylene (CAS: 1330-20-7)

Ingredient comments WEL = Workplace Exposure Limits

DNEL No data available.

PNEC No data available.

iso-Butanol (CAS: 78-83-1)

Ingredient comments WEL = Workplace Exposure Limits

DNEL Industry - Inhalation; Long term : 310 mg/m³

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PNEC	Industry - Fresh water; Long term 0.4 mg/l Industry - Marine water; Long term 0.04 mg/l

Propan-2-ol (CAS: 67-63-0)

DNEL	No data available.
PNEC	No data available.

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Ensure there is sufficient ventilation of the area. Use explosion-proof electrical/ventilating/lighting. Take precautionary measures against static discharge.
Eye/face protection	Tightly fitting safety goggles. Ensure eye bath is to hand.
Hand protection	Wear protective gloves.
Other skin and body protection	Wear protective clothing. Take precautionary measures against static discharge.
Hygiene measures	Provide eyewash station. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes wet or contaminated. Contaminated clothing should be placed in a closed container for disposal or decontamination. Warn cleaning personnel of any hazardous properties of the product. Use appropriate hand lotion to prevent defatting and cracking of skin.
Respiratory protection	Self-contained breathing apparatus must be available in case of emergency.
Environmental exposure controls	Prevent from entering in public sewers or the immediate environment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Colourless liquid.
Odour	Unpleasant.
Odour threshold	Data lacking.
pH	Data lacking.
Melting point	Data lacking.
Initial boiling point and range	Data lacking.
Flash point	Data lacking.
Evaporation rate	Data lacking.
Evaporation factor	Data lacking.
Flammability (solid, gas)	Data lacking.
Upper/lower flammability or explosive limits	Data lacking.
Other flammability	Data lacking.
Vapour pressure	Data lacking.

Synthetic Thinner

Vapour density	Data lacking.
Relative density	Data lacking.
Bulk density	Data lacking.
Solubility(ies)	Data lacking.
Partition coefficient	Data lacking.
Auto-ignition temperature	Data lacking.
Decomposition Temperature	Data lacking.
Viscosity	Non-viscous
Explosive properties	Data lacking.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not available.

9.2. Other information

Volatile organic compound	This product contains a maximum VOC content of 843 g/l.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Stable under recommended transport or storage conditions.

10.2. Chemical stability

Stability Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Under normal conditions of storage and use, no hazardous reactions will occur. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid Avoid heat.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products In combustion emits toxic fumes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Other health effects There is no evidence that the product can cause cancer.

Acute toxicity - oral

Notes (oral LD_{50}) Data lacking.

Acute toxicity - dermal

Notes (dermal LD_{50}) Data lacking.

Synthetic Thinner

ATE dermal (mg/kg)	1,692.05

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Data lacking.
ATE inhalation (gases ppm)	6,922.01
ATE inhalation (vapours mg/l)	16.92
ATE inhalation (dusts/mists mg/l)	2.31

Skin corrosion/irritation

Skin corrosion/irritation	No information available.
Animal data	Irritating.
Human skin model test	Data lacking.
Extreme pH	Irritating.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation	Data lacking.

Skin sensitisation

Skin sensitisation	Data lacking.

Germ cell mutagenicity

Genotoxicity - in vitro	Data lacking.
Genotoxicity - in vivo	Data lacking.

Carcinogenicity

Carcinogenicity	There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility	This substance has no evidence of toxicity to reproduction.
Reproductive toxicity - development	Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.

General information	No specific health hazards known.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
Ingestion	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Skin contact	There may be irritation or redness at the site of contact.

Synthetic Thinner

Eye contact	There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred. May cause permanent damage.
Acute and chronic health hazards	Gas or vapour is harmful on prolonged exposure or in high concentrations. This product is corrosive. This product may cause skin and eye irritation. Prolonged contact may cause burns. Toxic through skin absorption (percutaneous). Narcotic effect. A single exposure may cause the following adverse effects: Central nervous system depression. Repeated exposure may cause chronic eye irritation. Mild dermatitis, allergic skin rash. Defatting, drying and cracking of skin. Swallowing concentrated chemical may cause severe internal injury. Unconsciousness. Death.
Route of entry	Inhalation Ingestion. Skin and/or eye contact
Target organs	Central nervous system Eyes Liver Respiratory system, lungs Skin
Medical symptoms	Irritation of eyes and mucous membranes. Dilated pupils. General respiratory distress, unproductive cough. Severe skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension (low blood pressure). Dizziness.
Medical considerations	Chronic respiratory and obstructive airway diseases. Skin disorders and allergies. Liver and/or kidney damage. Convulsions. Central nervous system depression.

Toxicological information on ingredients.

Xylene

Toxicological effects	No information available.
Other health effects	There is no evidence that the product can cause cancer.
Acute toxicity - oral	
Notes (oral LD_{50})	Based on available data the classification criteria are not met.
Acute toxicity - dermal	
Notes (dermal LD_{50})	Harmful in contact with skin.
Acute toxicity - inhalation	
Notes (inhalation LC_{50})	Harmful if inhaled.
Skin corrosion/irritation	
Skin corrosion/irritation	Irritating to skin.
Animal data	Data lacking.
Human skin model test	Data lacking.
Extreme pH	Data lacking.
Serious eye damage/irritation	
Serious eye damage/irritation	Not irritating to eyes
Respiratory sensitisation	
Respiratory sensitisation	Not sensitising.
Skin sensitisation	
Skin sensitisation	Not sensitising.
Germ cell mutagenicity	

Synthetic Thinner

Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.
Genotoxicity - in vivo	This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity	There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility	This substance has no evidence of toxicity to reproduction.
Reproductive toxicity - development	Does not contain any substances known to be toxic to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.

General information	No specific health hazards known.
Inhalation	There may be irritation of the throat with a feeling of tightness in the chest.
Ingestion	There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur.
Skin contact	There may be irritation or redness at the site of contact.
Eye contact	There may be pain and redness. The eyes may water profusely. There may be severe pain. The vision may become blurred.
Acute and chronic health hazards	This product may cause skin and eye irritation. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Toxic through skin absorption (percutaneous). A single exposure may cause the following adverse effects: Central nervous system depression. Anaesthetic in high concentrations. Repeated exposure may cause chronic eye irritation. Acute eczematous dermatitis, contact type erythema, oedema, papules, vesicles, bullae, crusts, desquamation. Swallowing concentrated chemical may cause severe internal injury. Unconsciousness. Death.
Route of entry	Inhalation Skin absorption Ingestion. Skin and/or eye contact
Target organs	Blood Central nervous system Eyes Gastro-intestinal tract Kidneys Liver Respiratory system, lungs Skin
Medical symptoms	Severe irritation, burning and tearing. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. May cause suffocation. Severe skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension (low blood pressure). Dizziness.
Medical considerations	Skin disorders and allergies. Convulsions. Central nervous system depression.

Synthetic Thinner

iso-Butanol

Toxicological effects	No information available.
Other health effects	There is no evidence that the product can cause cancer.

Acute toxicity - oral

Notes (oral LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - dermal

Notes (dermal LD_{50})	Based on available data the classification criteria are not met.

Acute toxicity - inhalation

Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation	Irritating to skin.
Animal data	Irritating.
Human skin model test	Data lacking.
Extreme pH	Data lacking.

Serious eye damage/irritation

Serious eye damage/irritation	Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation	Not sensitising.

Skin sensitisation

Skin sensitisation	Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.
Genotoxicity - in vivo	This substance has no evidence of mutagenic properties.

Carcinogenicity

Carcinogenicity	There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility	This substance has no evidence of toxicity to reproduction.
Reproductive toxicity - development	This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

STOT - single exposure	Causes respiratory irritation
Target organs	Respiratory system, lungs

Specific target organ toxicity - repeated exposure

STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Synthetic Thinner

Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.
General information	No specific health hazards known.
Inhalation	Irritating to respiratory system.
Ingestion	No specific health hazards known.
Skin contact	Irritating to skin.
Eye contact	Risk of serious damage to eyes.
Acute and chronic health hazards	Gas or vapour is harmful on prolonged exposure or in high concentrations. This product may cause skin and eye irritation. Toxic through skin absorption (percutaneous). Narcotic effect. A single exposure may cause the following adverse effects: Central nervous system depression. Repeated exposure may cause chronic eye irritation. Mild dermatitis, allergic skin rash. Defatting, drying and cracking of skin. Swallowing concentrated chemical may cause severe internal injury. Unconsciousness. Death.
Route of entry	Inhalation Ingestion. Skin and/or eye contact
Target organs	Central nervous system Eyes Liver Respiratory system, lungs Skin
Medical symptoms	Irritation of eyes and mucous membranes. Dilated pupils. General respiratory distress, unproductive cough. Severe skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension (low blood pressure). Dizziness.
Medical considerations	Chronic respiratory and obstructive airway diseases. Skin disorders and allergies. Liver and/or kidney damage. Convulsions. Central nervous system depression.

Propan-2-ol

Other health effects	There is no evidence that the product can cause cancer.
Acute toxicity - oral	
Notes (oral LD_{50})	Based on available data the classification criteria are not met.
Acute toxicity - dermal	
Notes (dermal LD_{50})	Based on available data the classification criteria are not met.
Acute toxicity - inhalation	
Notes (inhalation LC_{50})	Based on available data the classification criteria are not met.
Skin corrosion/irritation	
Skin corrosion/irritation	Not irritating.
Serious eye damage/irritation	
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory sensitisation	
Respiratory sensitisation	Not sensitising.
Skin sensitisation	

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Skin sensitisation	Not sensitising.
Germ cell mutagenicity	
Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.
Genotoxicity - in vivo	This substance has no evidence of mutagenic properties.
Carcinogenicity	
Carcinogenicity	There is no evidence that the product can cause cancer.
Reproductive toxicity	
Reproductive toxicity - fertility	This substance has no evidence of toxicity to reproduction.
Reproductive toxicity - development	No evidence of reproductive toxicity in animal studies.
Specific target organ toxicity - single exposure	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure	
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard	
Aspiration hazard	Not anticipated to present an aspiration hazard, based on chemical structure.

Inhalation	Vapours in high concentrations are anaesthetic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Central nervous system depression.
Ingestion	Swallowing concentrated chemical may cause severe internal injury.
Skin contact	Contains components which may penetrate the skin. Prolonged contact may cause redness, irritation and dry skin.
Eye contact	Irritation of eyes and mucous membranes.
Acute and chronic health hazards	Exposure; This chemical has good warning properties. Gas or vapour is harmful on prolonged exposure or in high concentrations. Symptoms following overexposure may include the following: Irritation of eyes and mucous membranes. Toxic through skin absorption (percutaneous). Narcotic effect. A single exposure may cause the following adverse effects: Central nervous system depression. May cause chemical eye burns. Swallowing concentrated chemical may cause severe internal injury. Unconsciousness. Death.
Route of entry	Inhalation Ingestion. Skin and/or eye contact
Target organs	Central nervous system Eyes Respiratory system, lungs Skin
Medical symptoms	Irritation of eyes and mucous membranes. Dilated pupils. Rhinitis (inflammation of the nasal mucous membranes). Upper respiratory irritation. General respiratory distress, unproductive cough. May cause suffocation. Skin irritation. Nausea, vomiting. Unconsciousness, possibly death. Central nervous system depression. Drowsiness, dizziness, disorientation, vertigo. Behavioural changes. Hypotension (low blood pressure). Dizziness.
Medical considerations	Convulsions. Central nervous system depression.

Synthetic Thinner

SECTION 12: Ecological Information

Ecotoxicity The product is not expected to be hazardous to the environment.

Ecological information on ingredients.

Xylene

Ecotoxicity The product is not expected to be hazardous to the environment.

iso-Butanol

Ecotoxicity The product is not expected to be hazardous to the environment.

Propan-2-ol

Ecotoxicity Not regarded as dangerous for the environment.

12.1. Toxicity

Toxicity	LOW
Acute toxicity - fish	LC_{50}, 96 hours: 1430 mg/l, Algae
Acute toxicity - aquatic invertebrates	Not available.
Acute toxicity - aquatic plants	Not available.
Acute toxicity - microorganisms	Not available.
Acute toxicity - terrestrial	Not available.
Chronic toxicity - fish early life stage	Not available.
Short term toxicity - embryo and sac fry stages	Not available.
Chronic toxicity - aquatic invertebrates	Not available.

Ecological information on ingredients.

Xylene

Toxicity	Not considered toxic to fish.
Acute toxicity - fish	LC_{50}, 96 hours: 1430 mg/l, Algae
Acute toxicity - aquatic invertebrates	Not available.
Acute toxicity - aquatic plants	Not available.
Acute toxicity - microorganisms	Not available.
Acute toxicity - terrestrial	Not available.

Synthetic Thinner

Chronic toxicity - fish early life stage	Not available.
Short term toxicity - embryo and sac fry stages	Not available.
Chronic toxicity - aquatic invertebrates	Not available.

iso-Butanol

Toxicity	Not considered toxic to fish.
Acute toxicity - fish	LC_{50}, 96 hours: 1430 mg/l, Algae
Acute toxicity - aquatic invertebrates	Not available.
Acute toxicity - aquatic plants	Not available.
Acute toxicity - microorganisms	Not available.
Acute toxicity - terrestrial	Not available.
Chronic toxicity - fish early life stage	Not available.
Short term toxicity - embryo and sac fry stages	Not available.
Chronic toxicity - aquatic invertebrates	Not available.

Propan-2-ol

Toxicity	LOW
Acute toxicity - fish	LC_{50}, 96 hours: >100 mg/l, Algae

12.2. Persistence and degradability

Persistence and degradability The product is biodegradable.

Ecological information on ingredients.

Xylene

Persistence and degradability	No data available.

iso-Butanol

Persistence and degradability	The degradability of the product is not known.

Propan-2-ol

Synthetic Thinner

Persistence and degradability	No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulating.
Partition coefficient	Data lacking.

Ecological information on ingredients.

Xylene

Bioaccumulative potential	Data lacking.
Partition coefficient	Data lacking.

iso-Butanol

Bioaccumulative potential	The product is not bioaccumulating.
Partition coefficient	Data lacking.

Propan-2-ol

Bioaccumulative potential	Data lacking.
Partition coefficient	Data lacking.

12.4. Mobility in soil

Mobility	Absorbed only slowly onto soil
Adsorption/desorption coefficient	Data lacking.
Henry's law constant	Data lacking.
Surface tension	Data lacking.

Ecological information on ingredients.

Xylene

Mobility	Readily absorbed into soil
Adsorption/desorption coefficient	Data lacking.
Henry's law constant	Data lacking.
Surface tension	Data lacking.

iso-Butanol

Mobility	No data available.
Adsorption/desorption coefficient	Data lacking.
Henry's law constant	Data lacking.
Surface tension	Data lacking.

Synthetic Thinner

Propan-2-ol

Mobility Highly volatile.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

Xylene

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

iso-Butanol

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

Propan-2-ol

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects Negligible ecotoxicity

Ecological information on ingredients.

Xylene

Other adverse effects Negligible ecotoxicity

iso-Butanol

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Avoid release to the environment.

Disposal methods Transfer to a suitable container and arrange for collection by specialised disposal company. NB the user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Waste class 08 01 11

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 1263

UN No. (IMDG) 1263

UN No. (ICAO) 1263

UN No. (ADN) 1263

Synthetic Thinner

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	PAINT RELATED MATERIAL
Proper shipping name (IMDG)	PAINT RELATED MATERIAL
Proper shipping name (ICAO)	PAINT RELATED MATERIAL
Proper shipping name (ADN)	PAINT RELATED MATERIAL

14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

Transport labels



14.4. Packing group

ADR/RID packing group	II
IMDG packing group	II
ADN packing group	II
ICAO packing group	II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

EmS	F-E, S-E
ADR transport category	2
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	33
Tunnel restriction code	(D/E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

SECTION 15: Regulatory information

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

Synthetic Thinner

National regulations	Not applicable
Guidance	Workplace Exposure Limits EH40. CHIP for everyone HSG228. Safety Data Sheets for Substances and Preparations.
Health and environmental listings	None of the ingredients are listed.

15.2. Chemical safety assessment

A REACH chemical safety assessment has been carried out on the REACH registered products showing in section 3 of SDS

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet	ATE: Acute Toxicity Estimate. DNEL: Derived No Effect Level. PNEC: Predicted No Effect Concentration. CLP: Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008)] EUH statement: CLP-specific Hazard statement
General information	This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.
Key literature references and sources for data	Croner`s :Substances Hazardous to the Environment.2005. www.msdssolutions.com Sigma Aldrich msds Dangerous Properties of Industrial Chemicals, 6.edition, N.Sax, 1984. OSHA Air Contaminants - Permissible Exposure Limits (Title 29). Hazardous Materials, Emergency Response Guidebook, DOT-P 5800.3, 1984. NIOSH/OSHA Pocket Guide to Chemical Hazards, 1978. Chemical Hazards of the Workplace, Proctor & Hughes, Lippincott, 1978 Threshold Limit Values and Biological Exposure Indices for 1985-86. Chemical Safety Data Guide. Bureau of National Affairs, 1985. NFPA49. Hazardous Chemical Data, 1975. The Merck Index, 11. edition, 1989. Handbook of Toxic and Hazardous Chemicals and Carcinogens, Sittig, 1985. Material Safety Data Sheet, Misc. manufacturers. Sigma-Aldrich Library of Chemical Safety Data. Edition 2, 1988. The Condensed Chemical Dictionary, Hawley, 11th. edition, 1987. NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards, 1981. Suspect Chemicals Sourcebook, Roytech Publications, 1985. The Firefighter's Handbook of Hazardous Materials, Maltese Ent. 1984. Emergency Handling of Hazardous Materials in Surface Transportation, 1981. Rapid Guide to Hazardous Chemicals in the Workplace, NI Sax, 1986. IPCS via ILO
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Issued by	Nicola Dobson, Technical Services Supervisor
Revision date	09/01/2018
Revision	9
Supersedes date	03/07/2017
SDS number	20905
SDS status	Approved.

Synthetic Thinner

Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.
Signature	N Dobson

The above information is believed to be correct but does not purport to be all inclusive and shall be used as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.