Safety data sheet
according to 1907/2006/EC, Article 31

Version number 7

MSDS744
Revision: 14.07.2014

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

· **Date of compilation:** 14.07.2014
· **1.1 Product identifier**

· **Trade name:** **Silicon remover**

· **Article number(s):** 40670
· **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.

· **Application of the substance / the preparation:** Cleaning agent / Cleaner

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer / Supplier:**
Quartz Refinish Limited, Morleys Group
250 Osmaston Road, Derby
DE23 8LB, England
Phone: +44 1332 611893
Fax: +44 1332 331611
· **E-mail address of the competent person responsible for the Safety Data Sheet:** info@spraygunsdirect.co.uk

· **Informing department:** Sprayguns Direct Limited Morleys Group
· **1.4 Emergency telephone number:** +44 1332 611893

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

GHS08 health hazard

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

GHS07

STOT SE 3 H336 May cause drowsiness or dizziness.
· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xn; Harmful

R65: Harmful: may cause lung damage if swallowed.

F; Highly flammable

R11: Highly flammable.

N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

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· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
· **Hazard pictograms**

GHS02 GHS07 GHS08 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**
Naphtha (petroleum), hydrodesulfurized heavy
· **Hazard statements**
H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H304 May be fatal if swallowed and enters airways.
H411 Toxic to aquatic life with long lasting effects.
· **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P273 Avoid release to the environment.
P331 Do NOT induce vomiting.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
· **Additional information:**
EUH066 Repeated exposure may cause skin dryness or cracking.
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterization: Mixtures**
· **Description:** Solvent mixture

· **Dangerous components:**		
CAS: 64742-82-1 EINECS: 265-185-4 Index number: 649-330-00-2	Naphtha (petroleum), hydrodesulfurized heavy Xn R65; N R51/53 R10-66-67 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	50-100%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5	Ethyl acetate Xi R36; F R11 R66-67 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	10-25%

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CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4	Solvent naphtha (petroleum), light arom. Xn R65; N R51/53 R10-66-67 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H336	2.5-10%
CAS: 1330-20-7 EINECS: 215-535-7 Index number: 601-022-00-9	Xylene, mixture of isomers Xn R20/21; Xi R38 R10 Flam. Liq. 3, H226; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	2.5-10%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**
· **General information:** Immediately remove any clothing contaminated by the product.
· **After inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness bring patient into stable side position for transport.
· **After skin contact:**
Instantly wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
· **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting - Danger of chemical pneumonia.
Seek medical treatment.
· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
· **4.3 Indication of any immediate medical attention and special treatment needed** symptomatic treatment

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents**
Carbon dioxide (CO_2), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.
· **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
· **5.2 Special hazards arising from the substance or mixture**
Carbon monoxide (CO) and Carbon dioxide (CO_2)
· **5.3 Advice for firefighters**
· **Protective equipment:** Put on breathing apparatus.
· **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Remove all ignition sources.
Ensure adequate ventilation.
Keep people at a distance and stay on the windward side.
Avoid contact with skin and eyes.
Do not breathe vapour.
· **6.2 Environmental precautions:**
Do not allow product to reach sewage system or water bodies.

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Inform respective authorities in case product reaches water or sewage system.

· **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents.

· **6.4 Reference to other sections**
See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Keep away from heat and direct sunlight.
Avoid contact with skin and eyes.
Avoid breathing vapours.
Make sure that all applicable workplace limits are observed.

· **Information about protection against explosions and fires:**
Highly volatile, flammable constituents are released during processing.
Flammable fume/air mixtures may be formed in empty containers.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:**
Store in cool location.
Observe all local and national regulations for storage of water polluting products.

· **Information about storage in one common storage facility:** Store away from oxidizing agents.

· **Further information about storage conditions:**
Store container in a well ventilated position.
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.

· **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· **8.1 Control parameters**

· **Components with critical values that require monitoring at the workplace:**
Applicable PEL/OEL for hydrocarbons to be observed.

1330-20-7 Xylene, mixture of isomers	
WEL (Great Britain)	Short-term value: 441 mg/m³, 100 ppm Long-term value: 220 mg/m³, 50 ppm Sk; BMGV
IOELV (European Union)	Short-term value: 442 mg/m³, 100 ppm Long-term value: 221 mg/m³, 50 ppm Skin
141-78-6 Ethyl acetate	
WEL (Great Britain)	Short-term value: 400 ppm Long-term value: 200 ppm

· **DNELs**		
141-78-6 Ethyl acetate		
Oral	DNEL long-term exposure - systemic effects	4.5 mg/kg bw/d (general population)

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Dermal	DNEL acute / short-term exposure - systemic effect	734 mg/kg bw/d (general population)
	DNEL long-term exposure - systemic effects	37 mg/kg bw/d (general population)
		63 mg/kg bw/d (worker)
Inhalative	DNEL acute / short-term exposure - systemic effect	1468 mg/m³ (worker)
	DNEL long-term exposure - systemic effects	367 mg/m³ (general population)
		734 mg/m³ (worker)

· **PNECs**	
141-78-6 Ethyl acetate	
PNEC	0.24 mg/l (aqua (freshwater)) (Assessment factor 10)
	1.65 mg/l (aqua (intermittent releases)) (Assessment factor 100)
	0.024 mg/l (aqua (marine water)) (Assessment factor 100)
	1.15 mg/kg (sediment (freshwater))
	0.115 mg/kg (sediment (marine water))
	0.148 mg/kg (soil)
	650 mg/l (STP (sewage treatment plant)) (Assessment factor 1)

· **Ingredients with biological limit values:**	
1330-20-7 Xylene, mixture of isomers	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**
· **Personal protective equipment**
· **General protective and hygienic measures**
Keep away from foodstuffs, beverages and food.
Instantly remove any contaminated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
Filter A
If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
· **Protection of hands:**
Protective gloves
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:** Tightly sealed safety glasses
· **Body protection:** Protective work clothing

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SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	liquid
Colour:	colourless
· **Smell:**	Mineral-oil-like
· **Odour threshold:**	not determined
· **pH-value:**	not applicable
· **Change in condition**	
Melting point/Melting range:	not determined
Boiling point/Boiling range:	not determined
· **Flash point:**	< 21 °C
· **Inflammability (solid, gaseous)**	not applicable
· **Ignition temperature:**	370 °C
· **Decomposition temperature:**	not determined
· **Self-inflammability:**	Product is not selfigniting.
· **Danger of explosion:**	Product is not explosive. However, formation of explosive air/ vapour mixtures is possible.
· **Critical values for explosion:**	
Lower:	1.1 Vol %
Upper:	11.5 Vol %
· **Oxidizing properties**	none
· **Vapor pressure at 20 °C:**	100 hPa
· **Density at 20 °C:**	0.9 g/cm³
· **Relative density at 20 °C**	0.9 (H_2O = 1)
· **Vapour density (AIR = 1):**	not determined
· **Evaporation rate**	not determined
· **Solubility in / Miscibility with**	
Water:	not miscible or difficult to mix
· **Partition coefficient (n-octanol/water):**	not determined
· **Viscosity:**	
dynamic:	not determined
kinematic:	not determined
· **9.2 Other information**	No further relevant information available.

SECTION 10: Stability and reactivity

· **10.1 Reactivity** see 10.3
· **10.2 Chemical stability**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **10.3 Possibility of hazardous reactions** No dangerous reactions known.
· **10.4 Conditions to avoid** No further relevant information available.
· **10.5 Incompatible materials:** Strong oxidizing agents
· **10.6 Hazardous decomposition products:** Carbon monoxide (CO) and Carbon dioxide (CO_2)

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SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
64742-82-1 Naphtha (petroleum), hydrodesulfurized heavy		
Oral	LD50	> 2000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
Inhalative	LC50/4 h	> 5 mg/l (rat)
64742-95-6 Solvent naphtha (petroleum), light arom.		
Oral	LD50	> 6800 mg/kg (rat)
Dermal	LD50	> 3400 mg/kg (rabbit)
Inhalative	LC50/4 h	> 10.2 mg/l (rat)
1330-20-7 Xylene, mixture of isomers		
Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	2000 mg/kg (rabbit)
Inhalative	LC50/4 h	6350 mg/l (rat)
141-78-6 Ethyl acetate		
Oral	LD50	4935 mg/kg (rabbit)
Dermal	LD50	> 2000 mg/kg (rat)
Inhalative	LC50/4 h	1600 mg/l (rat)

· **Primary irritant effect:**
· **on the skin:** Long or repeated contact can defat skin and may cause dermatitis.
· **on the eye:** Short time, reversible irritating effect.

· **Subacute to chronic toxicity:**		
141-78-6 Ethyl acetate		
Oral	NOAEL	900 mg/kg/d (rat)

· **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Harmful
· **Sensitisation** No sensitizing effect known.
· **Repeated dose toxicity** not classified
· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
According to present knowledge no CMR-effects known.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**	
1330-20-7 Xylene, mixture of isomers	
EC50	1 - 10 mg/l (bacteria)
EC50/24 h	165 mg/l (water flea (daphnia magna))
IC50/72 h	1 - 10 mg/l (algae)
LC50/48 h	86 mg/l (leuciscus idus)
LC50/96 h	14 mg/l (rainbow trout (oncorhynchus mykiss))
141-78-6 Ethyl acetate	
EC50/48 h	3300 mg/l (algae)

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LC50/96 h	717 mg/l (water flea (daphnia magna))
	455 mg/l (fathead minnow (pimephales promelas))
	230 mg/l (rainbow trout (oncorhynchus mykiss))

· **12.2 Persistence and degradability** No further relevant information available.
· **12.3 Bioaccumulative potential** No further relevant information available.
· **12.4 Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Do not allow product to reach ground water, water bodies or sewage system.
Toxic for aquatic organisms
Water hazard class 2 (Self-assessment): hazardous for water
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**
· **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **European waste catalogue:**	
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 01 00	wastes from MFSU and removal of paint and varnish
08 01 11	waste paint and varnish containing organic solvents or other dangerous substances

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number**	
· **ADR, IMDG, IATA**	UN1263
· **14.2 UN proper shipping name**	
· **ADR**	UN 1263 PAINT RELATED MATERIAL (vapor pressure at 50 °C at most 110 kPa)
· **IMDG, IATA**	PAINT RELATED MATERIAL
· **14.3 Transport hazard class(es)**	
· **ADR**	

· **Class**	3 (F1) Flammable liquids.
· **Label**	3

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· **IMDG**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **IATA**	
· **Class**	3 Flammable liquids.
· **Label**	3
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	II
· **14.5 Environmental hazards:**	Product contains environmentally hazardous substances: Naphtha (petroleum), hydrodesulfurized heavy, Solvent naphtha (petroleum), light arom.
· **Marine pollutant:**	Symbol (fish and tree)
· **Special marking (ADR):**	Symbol (fish and tree)
· **14.6 Special precautions for user**	Warning: Flammable liquids.
· **Kemler Number:**	33
· **EMS Number:**	F-E,S-E
· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	Transport by post may be prohibited or restricted.
· **ADR**	
· **Excepted quantities (EQ):**	E2
· **Limited quantities (LQ):**	5L
· **Transport category:**	2
· **Tunnel restriction code:**	D/E
· **UN "Model Regulation":**	UN1263, PAINT RELATED MATERIAL, Special provision 640D, ENVIRONMENTALLY HAZARDOUS, 3, II

SECTION 15: Regulatory information

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

· **National regulations**

· **Information about limitation of use:** Employment restrictions concerning young persons must be observed.

· **Decree to be applied in case of technical fault:**
Quantity limits according to "EC Seveso directive" should be observed.

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

The(se) R- resp. H-phrase(s) are those of the ingredient(s) and do(es) not necessarily represent the classification of the preparation/mixture.

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

R10 Flammable.
R11 Highly flammable.
R20/21 Harmful by inhalation and in contact with skin.
R36 Irritating to eyes.
R38 Irritating to skin.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:**

Sprayguns Direct Limited Morleys
Group 250 Osmaston Road, Derby
DE23 8LB, England

Phone: +44 1332 611893
Fax: +44 1332 331611

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 2: Flammable liquids, Hazard Category 2
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

· ***** Data compared to the previous version altered.**