



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

- **Date of compilation:** 06.06.2014
- **1.1 Product identifier**
- **Trade name:** *VOC Performance Blender*
- **Article number(s):** 40580
- **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:** *Lacquer solvent / Varnish thinner*
- **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*
- **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*

Phone: +44 1332 611893

Fax: +44 1332 331611

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
-  **GHS02 flame**
Flam. Liq. 3 H226 Flammable liquid and vapour.
-  **GHS07**
Acute Tox. 4 H332 Harmful if inhaled.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xn; Harmful

R20: *Harmful by inhalation.*

R10: *Flammable.*

- **Information concerning particular hazards for human and environment:**
In the gas volume of sealed packages vapours of flammable solvents, especially at action of heat, may accumulate. Keep away fire and ignition sources.
- **Classification system:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **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

- **Signal word** *Warning*
- **Hazard-determining components of labelling:**
*Cyclohexanone
Butylglycol acetate*

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· **Hazard statements**

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

· **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.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

· **2.3 Other hazards**· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterization: Mixtures**· **Description:** Mixture consisting of the following components.· **Dangerous components:**

CAS: 108-94-1 EINECS: 203-631-1 Index number: 606-010-00-7	Cyclohexanone ☒ Xn R20 R10 ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H332	25-50%
CAS: 108-65-6 EINECS: 203-603-9 Index number: 607-195-00-7	1-Methoxy-2-propyl acetate R10 ⚠ Flam. Liq. 3, H226	25-50%
CAS: 112-07-2 EINECS: 203-933-3 Index number: 607-038-00-2	Butylglycol acetate ☒ Xn R20/21 ⚠ Acute Tox. 4, H312; ⚠ Acute Tox. 4, H332	10-25%

· **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.

Symptoms of poisoning may occur after several hours. Medical observation for at least 48 hours after the accident is recommended.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor.

In case of unconsciousness bring patient into stable side position for transport.

· **After skin contact:**

Wash with soap and water.

If skin irritation continues, consult a doctor.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.· **After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting - Danger of chemical pneumonia.

If swallowed, seek medical advice immediately and show this container or label.

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

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- **Danger:** Danger of pneumonia.
- **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 (CO₂), 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**
Can be released in case of fire:
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Can form explosive vapour-air mixtures.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**
Cool endangered containers with water spray jet.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
If without risk possible, move drums with material away from dangerous area.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation.
Remove all ignition sources.
Use breathing protection against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:**
Damp down gases/fumes/haze with water spray jet.
Do not allow to enter drainage system, surface or ground water.
Prevent material from reaching sewage system, holes and cellars.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Send for recovery or disposal in suitable containers.
Dispose of the material collected according to regulations.
- **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.
Use only in well ventilated areas.
Avoid contact with eyes.
Avoid prolonged or repeated skin contact.
Do not breathe vapour/spray.
Do not inhale aerosols.
Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Do not spray on flames or red-hot objects.
Fumes can combine with air to form an explosive mixture.

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Flammable fume/air mixtures may be formed in empty containers.

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

· **Storage**

· **Requirements to be met by storerooms and containers:**

Store in the original container.

Observe regulations for storage of flammable liquids.

Observe all local and national regulations for storage of water polluting products.

· **Information about storage in one common storage facility:**

Observe regulations for storage of flammable liquids.

· **Further information about storage conditions:**

Store container in a well ventilated position.

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

· **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:**

108-94-1 Cyclohexanone		
WEL (Great Britain)	Short-term value: 82 mg/m ³ , 20 ppm Long-term value: 41 mg/m ³ , 10 ppm Sk, BMGV	
IOELV (European Union)	Short-term value: 81.6 mg/m ³ , 20 ppm Long-term value: 40.8 mg/m ³ , 10 ppm Skin	
108-65-6 1-Methoxy-2-propyl acetate		
WEL (Great Britain)	Short-term value: 548 mg/m ³ , 100 ppm Long-term value: 274 mg/m ³ , 50 ppm Sk	
IOELV (European Union)	Short-term value: 550 mg/m ³ , 100 ppm Long-term value: 275 mg/m ³ , 50 ppm Skin	
112-07-2 Butylglycol acetate		
WEL (Great Britain)	Short-term value: 332 mg/m ³ , 50 ppm Long-term value: 133 mg/m ³ , 20 ppm Sk	
IOELV (European Union)	Short-term value: 333 mg/m ³ , 50 ppm Long-term value: 133 mg/m ³ , 20 ppm Skin	
· DNELs		
108-65-6 1-Methoxy-2-propyl acetate		
Oral	DNEL long-term exposure - systemic effects	1.67 mg/kg bw/d (general population)
Dermal	DNEL long-term exposure - systemic effects	54.8 mg/kg bw/d (general population) 153.5 mg/kg bw/d (worker)
Inhalative	DNEL long-term exposure - systemic effects	33 mg/m ³ (general population) 275 mg/m ³ (worker)
· PNECs		
108-65-6 1-Methoxy-2-propyl acetate		
PNEC	0.635 mg/l (aqua (freshwater))	

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6.35 mg/l (aqua (intermittent releases)) 0.0635 mg/l (aqua (marine water)) 3.29 mg/kg (sediment (freshwater)) 0.329 mg/kg (sediment (marine water)) 0.29 mg/kg (soil) 100 mg/l (STP (sewage treatment plant))	
· Ingredients with biological limit values:	
108-94-1 Cyclohexanone	
BMGV (Great Britain)	2 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: cyclohexanol

· **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.

Use skin protection cream for preventive skin protection.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Avoid close or long term contact with the skin.

Do not eat, drink or smoke while working.

Do not carry cleaning cloths impregnated with the product in trouser pockets.

· **Breathing equipment:**

If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.

· **Recommended filter device for short term use:**

Filter marking A (colour code brown), for filtering of organic gas/vapour with boiling point over 65 °C.

· **Protection of hands:**

Solvent resistant gloves.

To avoid skin problems reduce the wearing of gloves to the required minimum.

Check the permeability prior to each renewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **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**

Protective gloves should be replaced at first signs of wear.

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:**

Solvent resistant protective clothing

Body protection must be chosen depending on activity and possible exposure.

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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:	solvent-like
· Odour threshold:	not determined
· pH-value:	not applicable
· Change in condition	
Melting point/Melting range:	not determined
Boiling point/Boiling range:	≥ 146 °C
· Flash point:	~ 43 °C
· Inflammability (solid, gaseous)	not applicable
· Ignition temperature:	~ 280 °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:	1.3 Vol %
Upper:	10.8 Vol %
· Oxidizing properties	none
· Vapor pressure at 20 °C:	4.5 hPa
· Density at 20 °C:	~ 0.95 g/cm ³
· Relative density at 20 °C	~ 0.95 (H ₂ O = 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 and stored according to specifications.
Sources of ignition
Take precautionary measures against static discharge.
- **10.3 Possibility of hazardous reactions**
Forms explosive gases / fumes
Flammable vapour-air mixtures may develop.
Used empty containers may contain product gases which form explosive mixtures with air.
- **10.4 Conditions to avoid** No further relevant information available.

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· **10.5 Incompatible materials:**

Oxidizing agents
Alkaline materials

· **10.6 Hazardous decomposition products:** Carbon monoxide (CO) and Carbon dioxide (CO₂)

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

108-94-1 Cyclohexanone

Oral	LD50	1900 mg/kg (rat)
Dermal	LD50	948 mg/kg (rabbit)
Inhalative	LC50/4 h	> 6.2 mg/l (rat) (BASF - intern -) REACH-dossier (Stand: 11.07.2013) 8000 mg/l (rat)

108-65-6 1-Methoxy-2-propyl acetate

Oral	LD50	8532 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rabbit)
Inhalative	LC50/4 h	35.7 mg/l (rat)

112-07-2 Butylglycol acetate

Oral	LD50	2400 mg/kg (rat)
Dermal	LD50	1500 mg/kg (rabbit)

· **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:** not classified

· **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

Irritant

· **Sensitisation** No sensitizing effect known.

· **Repeated dose toxicity** not classified

· **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

According to present knowledge no CMR-effects known.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

108-65-6 1-Methoxy-2-propyl acetate

IC50/96 h	100 - 180 mg/l (rainbow trout (<i>oncorhynchus mykiss</i>)) (OECD 203) IUCLID
LC50/96 h	100-180 mg/l (red killifish (<i>Oryzias latipes</i>)) (OECD 203) ECHA-Reg.-Dossier (1987-09-21)

112-07-2 Butylglycol acetate

EC50/17 h	960 mg/l (<i>pseudomonas putida</i>)
EC50/48 h	37 mg/l (water flea (<i>daphnia magna</i>))
EC50/72 h	> 500 mg/l (algae (<i>Scenedesmus subspicatus</i>))

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LC50/48 h 80 mg/l (leuciscus idus)

- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** The product is easily biodegradable.
- **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.
Water hazard class 1 (Self-assessment): slightly 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.
Disposal must be made according to official regulations.
- **European waste catalogue:**
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **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 · IMDG, IATA	UN1263 PAINT RELATED MATERIAL, Special provision 640E PAINT RELATED MATERIAL
· 14.3 Transport hazard class(es) · ADR	
	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	III

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· 14.5 Environmental hazards:	
· Marine pollutant:	NO
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Kemler Number:	30
· 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):	E1
· Limited quantities (LQ):	5L
· Transport category:	3
· Tunnel restriction code:	D/E
· UN "Model Regulation":	UN1263, PAINT RELATED MATERIAL, Special provision 640E, 3, III

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 1 (Self-assessment): slightly hazardous for water
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

- **Reasons for changes:** Changes in classification and labelling
- **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.
H226 Flammable liquid and vapour.
H312 Harmful in contact with skin.
H332 Harmful if inhaled.

R10 Flammable.
R20 Harmful by inhalation.
R20/21 Harmful by inhalation and in contact with skin.
- **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

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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. 3: Flammable liquids, Hazard Category 3
Acute Tox. 4: Acute toxicity, Hazard Category 4

. * Data compared to the previous version altered.

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