Safety Data Sheet ALER ROWNEY MED
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) No 453/2010

Article No.:	128004/007	SOLUBLE GLOSS & MATT VARNISH	
Print date	16.09.2016	Revision date 16.09.2016	EN
Version	1.0	Issue date 16.09.2016	Page 1 / 9

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifiers

Article No. (manufacturer/supplier): 128004/007
Identification of the substance or mixture: SOLUBLE GLOSS & MATT VARNISH

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

Relevant identified uses:
Artists supply and hobby preparations
Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/downstream user/distributor):

Daler-Rowney Ltd
Peacock Lane
Bracknell, RG12 8SS
ENGLAND

Telephone: +44 (0) 1344 461083
Telefax: +44 (0) 1344 486511

Dept. responsible for information:

E-mail: Philip.Gray@daler-rowney.com

1.4. Emergency telephone number

Emergency telephone: +44 (0) 1344 461000

2. Hazards identification

2.1. Classification of the substance or mixture

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

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

2.2. Label elements

The product is classified and labelled according to EC directives or corresponding national laws.

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

Hazard pictograms

Warning

Hazard statements

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
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, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361 + P353	IF ON SKIN (or hair): Remove/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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P370 + P378	In case of fire: Use foam to extinguish.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local legislation.

contains:

isobutyl methacrylate
Solvent naphtha (petroleum), light aliph.

Supplemental Hazard information (EU)

n.a.

2.3. **Other hazards**

Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later.

3. Composition / Information on ingredients

3.2. **Mixtures**

Product description / chemical characterization

Description Alkydharz-Lack

Hazardous ingredients

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification:	Wt % Remark
265-192-2 64742-89-8 649-267-00-0	Solvent naphtha (petroleum), light aliph. Flam. Liq. 2 H225 / Skin Irrit. 2 H315 / Asp. Tox. 1 H304 / STOT SE 3 H336 / Aquatic Chronic 2 H411	25 - 50
918-167-1 64741-65-7	01-2119472146-39 Hydrocarbons, C11-C12, Isoalkanes, <2% Aromatics Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / Aquatic Chronic 4 H413	25 - 50
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32 xylene Flam. Liq. 3 H226 / Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / Asp. Tox. 1 H304 / STOT SE 3 H335 / Aquatic Chronic 3 H412	2,5 - 5
202-613-0 97-86-9 607-113-00-X	01-2119488331-38-xxxx isobutyl methacrylate Flam. Liq. 3 H226 / Eye Irrit. 2 H319 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Skin Sens. 1 H317 / Aquatic Acute 1 H400	1 - 2,5
203-625-9 108-88-3 601-021-00-3	01-2119471310-51 toluene Flam. Liq. 2 H225 / Skin Irrit. 2 H315 / Repr. 2 H361 / Asp. Tox. 1 H304 / STOT RE 2 H373 / STOT SE 3 H336 / Aquatic Chronic 3 H412	0,5 - 1

Additional information

Full text of classification: see section 16

4. First-aid measures

4.1. **Description of first aid measures**

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation
Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact
Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion
If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. **Most important symptoms and effects, both acute and delayed**
In all cases of doubt, or when symptoms persist, seek medical advice.

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

5. Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media
alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:
strong water jet

5.2. **Special hazards arising from the substance or mixture**
Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage. Vapours form explosive mixtures with air.

5.3. **Advice for firefighters**
Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous. Cool closed containers that are near the source of the fire.

6. Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**
Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

6.2. **Environmental precautions**
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations. Vapours form explosive mixtures with air.

6.3. **Methods and material for containment and cleaning up**
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13).

6.4. **Reference to other sections**
Observe protective provisions (see chapter 7 and 8).

7. Handling and storage

7.1. **Precautions for safe handling**

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Precautions against fire and explosion:
Vapours are heavier than air. Vapours form explosive mixtures with air.

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

Requirements for storage rooms and vessels
Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (BGR 132)".

Hints on joint storage
Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions
Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. **Specific end use(s)**
Observe technical data sheet. Observe instructions for use.

8. Exposure controls / Personal protection

8.1. **Control parameters**
Occupational exposure limit values:
n.a.

8.2. **Exposure controls**
Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Occupational exposure controls

Respiratory protection
If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection
For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)
Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection
Wear closely fitting protective glasses in case of splashes.

Protective clothing
Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures
After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls
Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

9. Physical and chemical properties

9.1. **Information on basic physical and chemical properties**

Appearance:	liquid
Physical state	liquid
Colour	refer to label
Odour	characteristic

Safety relevant basis data		Unit	Method	Remark
Flash point:	< 40	°C	DIN 53213	
Ignition temperature in °C:	355	°C		

Lower explosion limit	0,6	Vol-%
Upper explosion limit	7,8	Vol-%
Vapour pressure at 20 °C:	0,32	mbar
Density at 20 °C:	1,00	g/cm³
Water solubility (g/L)	insoluble	
pH at 20 °C:	-	
Viscosity at 20 °C	< 40	mPa·s
Solvent separation test (%)	< 3	%
boiling point in °C at 101,3 kPa	100	°C

9.2. **Other information:**

10. Stability and reactivity

10.1. **Reactivity**

10.2. **Chemical stability**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

10.3. **Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. Vapours form explosive mixtures with air.

10.4. **Conditions to avoid**
Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**

10.6. **Hazardous decomposition products**
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

11. Toxicological information

Classification according to Regulation (EC) No. 1272/2008 [CLP]
No data on preparation itself available.

11.1. **Information on toxicological effects**

Acute toxicity

toluene
oral, LD50, Rat: 636 mg/kg
dermal, LD50, Rabbit: 12200 mg/kg
inhalative (vapours), LC50, Rat: 49 mg/L (4 h)

isobutyl methacrylate
inhalative (vapours), LC50, Rat: 28 mg/L (4 h)

Hydrocarbons, C11-C12, Isoalkanes, <2% Aromatics
oral, LD50, Rat: > 5000 mg/kg
Method: OECD 401
dermal, LD50, Rabbit: > 5000 mg/kg

xylene
oral, LD50, Rat: 4300 mg/kg
dermal, LD50, Rabbit: 1700 mg/kg
inhalative (vapours), LC50, Rat: 21,7 mg/L (4 h)

Solvent naphtha (petroleum), light aliph.
inhalative (vapours), LC50, Rat: > 5,61 mg/L (4 h)

skin corrosion/irritation; Serious eye damage/eye irritation

Hydrocarbons, C11-C12, Isoalkanes, <2% Aromatics
Skin (4 h)
Causes mild skin irritation.
Eyes: evaluation Not an irritant.

xylene
Skin (4 h)
irritant.

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Respiratory or skin sensitisation

toluene
Skin: ; evaluation not sensitising.

isobutyl methacrylate
Skin:
May cause an allergic skin reaction.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

Other observations:
Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

Remark

There is no information available on the preparation itself .

12. Ecological information

overall evaluation
Classification according to Regulation (EC) No. 1272/2008 [CLP]
There is no information available on the preparation itself .
Do not allow to enter into surface water or drains.

12.1. **Toxicity**

toluene
Fish toxicity, LC50, Oncorhynchus mykiss: 5,8 mg/L (96 h)
Method: OECD 203

isobutyl methacrylate
Fish toxicity, LC50, Oncorhynchus mykiss: 20 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 29 mg/L (48 h)
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 16 mg/L (72 h)
Method: Inhibition of growth rate.

xylene
Fish toxicity, LC50, Pimephales promelas (fathead minnow): 13,4 mg/L (96 h)

Solvent naphtha (petroleum), light aliph.
Fish toxicity, LC50, Pimephales promelas (fathead minnow): 8,2 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 4,8 mg/L (48 h)
Algae toxicity, ErC50, Selenastrum capricornutum: 3,1 mg/L (72 h)
Method: OECD 201

Long-term Ecotoxicity

toluene
Fish toxicity, NOEC: 1,4 mg/L (40 d)
Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 2 mg/L (21 d)

xylene
Fish toxicity, NOEC, Oncorhynchus mykiss: > 1,3 mg/L (56 d)

Solvent naphtha (petroleum), light aliph.
Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 2,6 mg/L (21 d)

12.2. **Persistence and degradability**

toluene

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Biodegradation: 100 % (14 d)
Method: OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F

isobutyl methacrylate
Biodegradation:, OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F: 88 % (28 d)

xylene
Biodegradation:, OECD 301 F: > 60 % (10 d)

12.3. **Bioaccumulative potential**

toluene
Distribution coefficient (n-octanol / water) (log P O/W): 2,73

isobutyl methacrylate
Distribution coefficient (n-octanol / water) (log P O/W): 2,66

Bioconcentration factor (BCF)

toluene
Bioconcentration factor (BCF), fish: 13,2 - 90

xylene
Bioconcentration factor (BCF): 25,9

12.4. **Mobility in soil**
Toxicological data are not available.

12.5. **Results of PBT assessment**
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. **Other adverse effects**

13. Disposal considerations

13.1. **Waste treatment methods**

Appropriate disposal / Product
Recommendation
Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC
080111 waste paint and varnish containing organic solvents or other dangerous substances

packaging
Recommendation
Non-contaminated packages may be recycled. Vessels not properly emptied are special waste. Send to a collecting point for used paints.

14. Transport information

14.1. **UN number**
UN 1263

14.2. **UN proper shipping name**

Land transport (ADR/RID):	Paint
Sea transport (IMDG):	PAINT
Air transport (ICAO-TI / IATA-DGR):	Paint

14.3. **Transport hazard class(es)**
3

14.4. **Packing group**
III

14.5. **Environmental hazards**

Land transport (ADR/RID)	UMWELTGEFÄHRDEND
Marine pollutant	p / Isobutylmethacrylat, stabilisi

14.6. **Special precautions for user**
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

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Land transport (ADR/RID)

tunnel restriction code D/E

Sea transport (IMDG)

EmS-No. F-E, S-E

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

not applicable

SECTION 15: Regulatory information

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

EU legislation

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L) ISO 11890-2: 584
VOC-value (in g/L) ASTM D 2369: 584

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations, restrictions and prohibition regulations

15.2. **Chemical Safety Assessment**

For the following substances of this preparation a chemical safety assessment has been carried out:

EC No. CAS No.	Chemical name	REACH No.
202-613-0 97-86-9	isobutyl methacrylate	01-2119488331-38-xxxx
918-167-1 64741-65-7	Hydrocarbons, C11-C12, Isoalkanes, <2% Aromatics	01-2119472146-39
215-535-7 1330-20-7	xylene	01-2119488216-32

16. Other information

Full text of classification in section 3:

Flam. Liq. 2 / H225	flammable liquids	Highly flammable liquid and vapour.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Flam. Liq. 3 / H226	flammable liquids	Flammable liquid and vapour.
Aquatic Chronic 4 / H413	Hazardous to the aquatic environment	May cause long lasting harmful effects to aquatic life.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Skin Sens. 1 / H317	respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic life.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging the unborn child.
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

Abbreviations and acronyms

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For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

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

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations.Without written approval, the product must not be used for purposes different from those mentioned in chapter 1.It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations.The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.