potterycrafts

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Name RTV 65 Part B
Product No. 403-820, 403-840 Part B

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

No further relevant information available.

1.3. Details of the supplier of the safety data sheet

Supplier Potterycrafts Ltd.,
Campbell Road,
Stoke on Trent
ST4 4ET.
Tel 44 (0)1782 745000
sales@potterycrafts.co.uk

1.4. Emergency telephone number

+44(0)1782 745000 (Office Hours 10:00-15:30)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

flame

Flam. Liq. 3 H226 Flammable liquid and vapour.

health hazard

STOT SE 2 H371 May cause damage to the immune system.

Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms –

GHS02 GHS07 GHS08

Signal word – Warning

Hazard-determining components of labelling:

tetraethyl silicate Dimethylbis[(1-oxoneodecyl)oxy]stannan dioctyltin oxide

Hazard statements

H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H371 May cause damage to the immune system.
H335 May cause respiratory irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

2.3. Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable
vPvB: Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

· **Dangerous components:**		
CAS: 78-10-4 EINECS: 201-083-8 Reg.nr.: 01-2119496195-28	tetraethyl silicate Flam. Liq. 3, H226; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	25-50%
CAS: 870-08-6 EINECS: 212-791-1 Reg.nr.: 01-2119971268-27xxxx	dioctyltin oxide STOT SE 2, H371	10-25%
CAS: 68928-76-7 EINECS: 273-028-6 Reg.nr.: 01-2120770324-57xxxx	Dimethylbis[(1-oxoneodecyl)oxy]stannan Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317; Aquatic Chronic 3, H412	5-<10%

Additional information

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information: Provide oxygen treatment if affected person has difficulty breathing. Immediately remove any clothing soiled by the product.

Inhalation

Supply fresh air.

In case of unconsciousness place patient stably in side position for transportation.

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

Skin contact

If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.

Eye contact

Rinse opened eye for several minutes under running water. Then consult a doctor.

Ingestion

Do not induce vomiting; call for medical help immediately.
If swallowed, rinse mouth with water (only if the person is conscious). Seek immediate medical advice.

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

No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents

Water with full jet

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire. toxic fume

Carbon monoxide (CO) Carbon dioxide

5.3. Advice for firefighters

Protective equipment

Do not inhale explosion gases or combustion gases.
Wear fully protective suit.
Wear self-contained respiratory protective device.

Additional information

Cool endangered receptacles with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.
Wear protective clothing.

6.2. Environmental precautions

Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose 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 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Take care by opening
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

Information about fire - and explosion protection:

Fumes can combine with air to form an explosive mixture.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Keep container tightly closed and dry and storage in a good, ventilated room.
Storage temperature: 20 - 25 °C.

Information about storage in one common storage facility:

Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
Store away from foodstuffs.

Further information about storage conditions:

Keep container tightly sealed.

Storage class: 3

7.3. Specific end use(s)

Denomination of Origin	Made in Germany
Processing information	Homogenize content before use
General remark	For processing instructions see data sheet

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace: **1 78-10-4 tetraethyl silicate**		
WEL (Great Britain) IOELV (European Union) AGW (Germany) MAK (Austria)		Long-term value: 44 mg/m³, 5 ppm Long-term value: 44 mg/m³, 5 ppm Long-term value: 12 mg/m³, 1.4 ppm 1(I);AGS Short-term value: 88 mg/m³, 10 ppm Long-term value: 44 mg/m³, 5 ppm
870-08-6 dioctyltin oxide		
WEL (Great Britain) AGW (Germany) MAK (Austria)		Short-term value: 0.2 mg/m³ Long-term value: 0.1 mg/m³ as Sn; Sk Long-term value: 0.01 mg/m³, 0.002 ppm 2(II);H, Y, 10, 11, AGS, DFG Short-term value: 0.2 E mg/m³ Long-term value: 0.1 E mg/m³ als Sn berechnet
DNELs		
78-10-4 tetraethyl silicate		
Dermal	DNEL Acute - systemic effects DNEL Long-term - systemic effects	8.4 mg/kg (General population) 12.1 mg/kg (workers) 8.4 mg/kg (General population) 12.1 mg/kg (workers)
Inhalative	DNEL Acute - systemic effects DNEL Long-term - systemic effects DNEL Acute - local effects DNEL Long-term exposure - local effects	25 mg/m³ (General population) 85 mg/m³ (workers) 25 mg/m³ (General population) 85 mg/m³ (workers) 25 mg/m³ (General population) 85 mg/m³ (workers) 25 mg/m³ (General population) 85 mg/m³ (workers)
870-08-6 dioctyltin oxide		
Oral Dermal Inhalative	DNEL Long-term - systemic effects DNEL Long-term - systemic effects DNEL Long-term - systemic effects	0.0005 mg/kg bw/day (General population) 0.025 mg/kg bw/day (General population) 0.05 mg/kg bw/day (workers) 0.0009 mg/m³ (General population) 0.004 mg/m³ (workers
PNECs		
78-10-4 tetraethyl silicate		
PNEC STP PNEC sediment PNEC soil PNEC		4,000 mg/L (sewage plant) 0.18 mg/kg (freshwater- sediment) 0.018 mg/kg (seawater - sediment) 0.05 mg/kg (soil (Boden)) 0.192 mg/l (freshwater) 0.0192 mg/l (marine water) 10 mg/l (intermittent releases)
870-08-6 dioctyltin oxide		
PNEC STP PNEC aqua PNEC sediment PNEC soil		100 mg/L (sewage plant) <0.002 ug/L (freshwater) <0.001 ug/L (marine water) 0.02798 mg/kg (freshwater- sediment) 0.002798 mg/kg (seawater - sediment) 0.005593 mg/kg (soil (Boden))

Additional information: The lists valid during the making were used as basis.

8.2. Exposure controls

Appropriate engineering controls

No further data; see section 7

Individual protection measures, such as personal protective equipment, General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.

Respiratory protection:

Short term filter device:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Not necessary if room is well-ventilated.

Hand protection

Protective gloves

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 cannot 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.

Material of gloves

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR

Eye protection

Tightly sealed goggles

Body protection

Protective work clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Fluid
Colour:	Yellowish
Odour:	Characteristic
Odour threshold:	Not determined
Melting point/freezing point:	Undetermined
Boiling point or initial boiling point and boiling range	166 °C
Flammability	Not applicable
Lower and upper explosion limit	
Lower:	1.3 Vol %
Upper:	23 Vol %
Flash point:	45 °C
Ignition temperature:	265 °C
Decomposition temperature:	Not determined
pH	Not determined
Viscosity:	
Kinematic viscosity	Not determined
Dynamic at 20 °C:	70 mPas
Solubility	
Water:	Insoluble
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C:	1.7 hPa
Density and/or relative density	
Density at 20 °C:	0.96955 g/cm³
Relative density	Not determined
Vapour density	Not determined

9.2. Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Auto-ignition temperature:	Product is not self-igniting
Explosive properties:	1
Solvent content:	
Organic solvents:	47.2 %
VOC (EC)	457.8 g/l
Change in condition	
Evaporation rate	Not determined
Information regarding physical hazard classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Flammable liquid and vapour
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void

Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3. Possibility of hazardous reactions

Forms flammable gases/fumes.

10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapors may form explosive mixtures with air.
Moisture. Heat, open flames and other ignition sources. With contaminated pipes and tanks or corroded or rusty containers may lead to increased formation of hydrogen. Detail in section 7.

10.5. Incompatible materials

Incompatible with oxidizing agents, acids

10.6. Hazardous decomposition products

at the termic dismantling can be build formaldehyde

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity

LD/LC50 values relevant for classification:		
78-10-4 tetraethyl silicate		
Oral	LD50	>2,500 mg/kg (rat) (OECD 423 Acute Oral Toxicity)
Inhalative	LD50/4	10 mg/m³ (rat) (OECD 403 Acute Inhalation Toxicity)
870-08-6 dioctyltin oxide		
Oral	LD50	2,500 mg/kg (rat)
68928-76-7 Dimethylbis[(1-oxoneodecyl)oxy]stannan		
Oral	LD50	890 mg/kg (rat)

Serious eye damage/irritation	irritation feasible.
Serious eye damage/irritation	Causes serious eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction.

STOT-single exposure

May cause damage to the immune system.
May cause respiratory irritation

11.2 Information on other hazards

Endocrine disrupting properties		
870-08--6	dioctyltin oxide	List II

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

· Aquatic toxicity:	
78-10-4 tetraethyl silicate	
LC50 (96 h) EC50 (48 h) EC50 (72 h) EC50(3h)	>245 mg/l (Brachydanio rerio) (OECD 203 Fish, Acute Toxicity Test) >75 mg/l (Daphnia Magna) (OECD 202 Daphnia sp. Acute Immobilisation Test) >100 mg/l (Pseudokirchnerella Subcapitata) (OECD 201 Alga, Growth Inhibition Test) >100 mg/l (activated sludge) (OECD209Activated Sluge,Respiration Inhibition Test)
870-08-6 dioctyltin oxide	
LC50 (96 h) EC50 (48 h) EC50 (3 h)	>0.09 mg/l (Danio Rerio) >0.21 mg/l (Daphnia Magna) >1,000 mg/l (activated sludge)
68928-76-7 Dimethylbis[(1-oxoneodecyl)oxy]stannan	
LC50 (48 h) EC50 (48h) EC50(72h)	39 mg/l (D) 39 mg/l (Daphnia Magna) 7.6 mg/l (A)

12.2. Persistence and degradability

This product hydrolyses in water or wet soil, releasing alcohols and silicic acid.
This Product hydrolyses in water or moist air, releasing methanol and organosilicons connection.

Other information: Elimination by adsorption onto activated sludge.

12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

12.6. Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

· 12.7. Other adverse effects

Remark: Harmful to fish
Additional ecological information:

General notes:
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

Waste disposal key:

This product has no waste code according to the European Waste Catalogue (EWC) can be determined, as only the Usage enables an allocation by the consumer. The waste code number is within the EU Establish cooperation with the disposal.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

ADR, IMDG, IATA UN1993

14.2 UN proper shipping name

ADR 1993 FLAMMABLE LIQUID, N.O.S. (TETRAETHYL SILICATE, ISOPROPANOL (ISOPROPYL ALCOHOL))

IMDG, IATA FLAMMABLE LIQUID, N.O.S. (TETRAETHYL SILICATE, ISOPROPANOL (ISOPROPYL ALCOHOL))

14.3. Transport hazard class(es)

ADR,

Class 3 (F1) Flammable liquids.

Label 3

IMDG, IATA

Class 3 Flammable liquids.

Label 3

14.4. Packing group

ADR, IMDG, IATA III

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Warning: Flammable liquids.

Hazard identification number (Kemler code): 30

EMS Number: F-E,S-E

Stowage Category A

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

IMO instruments Not applicable

Transport/Additional information: special instruction : ADNR , ADR , RID , special instruction 640 D

ADR

· Limited quantities (LQ) *5L*

· Excepted quantities (EQ) *Code: E1*

Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· ***Transport category*** *3*
· ***Tunnel restriction code*** *D/E*
IMDG
· ***Limited quantities (LQ)*** *5L*
· ***Excepted quantities (EQ)*** *Code: E1*
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· ***UN "Model Regulation":***	*UN 1993 FLAMMABLE LIQUID, N.O.S. (TETRAETHYL SILICATE, ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, III*

SECTION 15: REGULATORY INFORMATION

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

Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the GP CLP regulation.
Hazard pictograms

GHS02 GHS07 GHS08

Signal word Warning
Hazard-determining components of labelling:
tetraethyl silicate Dimethylbis[(1-oxoneodecyl)oxy]stannan dioctyltin oxide
Hazard statements
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H371 May cause damage to the immune system.
H335 May cause respiratory irritation.
Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.
Named dangerous substances - ANNEX I None of the ingredients is listed.
Seveso category P5c FLAMMABLE LIQUIDS
Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000t
National regulations
Technical instructions (air):

Class	Share in %
NK	25-50

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.

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases
H226 Flammable liquid and vapour.
H302 Harmful if swallowed. H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H371 May cause damage to organs.
H412 Harmful to aquatic life with long lasting effects.
· Recommended restriction of use
The information in this safety data sheet corresponds to the best of our knowledge at the time of the revision. The information should give you clues for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The details are not transferable to other products. Insofar as the product mentioned in this safety data sheet is mixed with other materials, mixed or processed, or subjected to processing, the information in this safety data sheet, unless expressly stated otherwise, can not be transferred to the new material produced in this way.
UFI code is valid in:
Germany
Denmark
Austria
Slovenia Poland
Netherlands
Hungary
France
· Department issuing SDS: environment protection department
Contact: 01782 745000 Office Hours 08:30-17:00 hrs Mondays-Thursday 8:30-15:30 Friday

Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord relatif au transport international 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 Harmonised System of Classification and Labelling of Chemicals
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids - Category 3
Acute Tox. 4: Acute toxicity - Category 4
Skin Irrit. 2: Skin corrosion/irritation - Category 2
Eye Irrit. 2: Serious eye damage/eye irritation - Category 2
Skin Sens. 1: Skin sensitisation - Category 1
Skin Sens. 1A: Skin sensitisation - Category 1A
STOT SE 2: Specific target organ toxicity (single exposure) - Category 2
STOT SE 3: Specific target organ toxicity (single exposure) - Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 ·
* Data compared to the previous version altered.

Issued By	Product Regulations Dept
Revision Date	18/02/29
Revision	2
Supersedes date	18/02/26
SDS No.	000
Safety Data Sheet Status	Approved.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable

as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.