Safety data sheet
according to UK REACH

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

· 1.1 Product identifier

· Trade name: **Thinner 21**

· Article number: 0521
· CAS Number:
67-63-0
· EC number:
200-661-7
· Index number:
603-117-00-0
· 1.2 Relevant identified uses of the substance or mixture and uses advised against
· Sector of Use
SU3 Industrial uses: use of substances as such or in preparations in an industrial environment
SU8 Manufacture of bulk, large scale chemicals (including petroleum products)
SU9 Manufacture of fine chemicals
SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)
SU22 Professional use: Public domain (administration, education, entertainment, services, craftsmen)
· Process category
PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.
PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC4 Chemical production where opportunity for exposure arises
PROC5 Mixing or blending in batch processes
PROC6 Calendering operations
PROC7 Industrial spraying
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC8b Transfer of substance or mixture (charging and discharging) at dedicated facilities
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC10 Roller application or brushing
PROC11 Non industrial spraying
PROC13 Treatment of articles by dipping and pouring
PROC14 Tabletting, compression, extrusion, pelletisation, granulation
PROC15 Use as laboratory reagent
PROC16 Use of fuels
PROC17 Lubrication at high energy conditions in metal working operations
PROC18 General greasing /lubrication at high kinetic energy conditions
PROC19 Manual activities involving hand contact
PROC20 Use of functional fluids in small devices
PROC21 Low energy manipulation and handling of substances bound in/on materials or articles
· Environmental release category
ERC1 Manufacture of the substance
ERC2 Formulation into mixture
ERC3 Formulation into solid matrix
ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC5 Use at industrial site leading to inclusion into/onto article
ERC6a Use of intermediate
ERC7 Use of functional fluid at industrial site
ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
ERC8f Widespread use leading to inclusion into/onto article (outdoor)
ERC8d Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor)
ERC9a Widespread use of functional fluid (indoor)
ERC9b Widespread use of functional fluid (outdoor)
· Application of the substance / the mixture Thinner, Diluent
· Uses advised against SU21 Consumer use: Private households / general public / consumers

· 1.3 Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
Carboline
Carrer Numancia 185,
Entresuelo, 08034,
Barcelona, Espana.
+34 93 209 60 19
Inter-Che-M B.V.
Platinawerf 22-26,

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6641TL Beuningen
Holland
T +31 (0)24 678 02 20
E sds@interchem.nl
W www.interchem.nl

· Further information obtainable from: Product safety department: sds@interchem.nl
· 1.4 Emergency telephone number: This product does not need to be notified under Article 45.

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.

GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H336 May cause drowsiness or dizziness.

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

GHS02 GHS07

· Signal word Danger

· Hazard-determining components of labelling:
propan-2-ol
· Hazard statements
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
· Additional information:
Restricted to professional users.
· 2.3 Other hazards
· Results of PBT and vPvB assessment
· PBT: Not applicable.
· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.1 Substances
· CAS No. Description
67-63-0 propan-2-ol
· Identification number(s)
· EC number: 200-661-7
· Index number: 603-117-00-0

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SECTION 4: First aid measures

· 4.1 Description of first aid measures
· General information: Immediately remove any clothing soiled by the product.
· After inhalation:
Take affected persons into fresh air and keep quiet.
Seek medical treatment in case of complaints.
· After skin contact: If skin irritation continues, consult a doctor.
· After eye contact:
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Contact lens removal.
· After swallowing:
Rinse mouth.
Do not induce vomiting; call for medical help immediately.
· 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 or powder. Fight larger fire with alcohol-resistant foam.
· 5.2 Special hazards arising from the substance or mixture
In case of fire, the following can be released:
Carbon monoxide (CO)
· 5.3 Advice for firefighters
· Protective equipment: 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
Ensure adequate ventilation
Keep away from ignition sources.
Wear protective equipment. Keep unprotected persons away.
· 6.2 Environmental precautions:
Dilute with plenty of water.
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).
Ensure adequate ventilation.
Collect leaking liquid in sealable waste containers.
· 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 No special precautions are necessary if used correctly.
· 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
· Storage:
· Requirements to be met by storerooms and receptacles:
Store in a cool location.
Store only in the original receptacle.
· Information about storage in one common storage facility: Store away from oxidising agents.

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· Further information about storage conditions:
Store receptacle in fume cupboard.
Keep container tightly sealed.
· Storage class: 3
· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters
· Ingredients with limit values that require monitoring at the workplace:

67-63-0 propan-2-ol
WEL Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm
· DNELs

67-63-0 propan-2-ol
Dermal Long-term exposure - systemic effects 888 mg/kg bw/day (worker)
Inhalative Long-term exposure - systemic effects 500 mg/m3 (worker)
· PNECs

67-63-0 propan-2-ol
PNEC 552 mg/kg (sediment marine water)
552 mg/kg (sediment freshwater)
28 mg/kg (soil)
PNEC 2,251 mg/l (STP)
140.9 mg/l (aqua, freshwater)
140.9 mg/l (aqua, intermittent releases)
140.9 mg/l (aqua, marine water)
· Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls
· Appropriate engineering controls Ensure adequate ventilation.
· 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 and skin.
· Respiratory protection:
Suitable respiratory protective device recommended.
Short term filter device:
Filter type A.
If workers are exposed to concentrations above the exposure limit, they should use a suitable, certified respirator.
· Hand protection
The glove material has to be impermeable and resistant to the product.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· Material of gloves
Suitable material for safety gloves (EN 374):
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.
Nitrile rubber, NBR
· Penetration time of glove material
Value for permeation: Level ≥ 480 min (2-propanol)
Thickness of gloves ≥ 0.35 mm (2-propanol)
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye/face protection

Tightly sealed goggles

· Body protection: Solvent resistant protective clothing
· Environmental exposure controls No additional data. See 6 and 13.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
· General Information

· Physical state	Fluid
· Colour:	Clear
· Odour:	Alcohol-like
· Odour threshold:	Not determined.
· Melting point/freezing point:	-127 °C
· Boiling point or initial boiling point and boiling range	82 °C (67-63-0 propan-2-ol)
· Flammability	Highly flammable.
· Lower and upper explosion limit	
· Lower:	2 Vol % (67-63-0 propan-2-ol)
· Upper:	13 Vol % (67-63-0 propan-2-ol)
· Flash point:	12 °C
· Auto-ignition temperature:	425 °C
· Decomposition temperature:	Not determined.
· pH	7
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	2.5 mPas
· Solubility	
· water at 20 °C:	1 g/l Slightly soluble.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	43 hPa (67-63-0 propan-2-ol)
· Density and/or relative density	
· Density at 20 °C:	0.79 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.	
· Ignition temperature:	Not determined.
· Explosive properties:	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	100.0 %
· VOC (EC)	790.0 g/l 100.00 %
· Solids content:	0.0 %
· Molecular weight	60 g/mol
· Change in condition	
· Evaporation rate	Not determined.

· Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void

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· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly 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
Reacts with strong acids.
Reacts with metals forming hydrogen.
Reacts with strong oxidizing agents.
· 10.4 Conditions to avoid High temperatures
· 10.5 Incompatible materials:
Aldehyde
Some plastics
Rubber
Amine epoxy coatings
Strong oxidising products.
· 10.6 Hazardous decomposition products:
Formaldehyde
Hydrogen

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
· Acute toxicity Based on available data, the classification criteria are not met.
· LD/LC50 values relevant for classification:

67-63-0 propan-2-ol

Oral	LD50	5,840 mg/kg (rat)
Dermal	LD50	13,900 mg/kg (rabbit) (OESO 401)
Inhalative	LC50/6h	>25 mg/l (rat)

· Primary irritant effect:
· Serious eye damage/irritation Causes serious eye irritation.
· STOT-single exposure May cause drowsiness or dizziness.
· 11.2 Information on other hazards
· Endocrine disrupting properties

Substance is not listed.

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SECTION 12: Ecological information

· 12.1 Toxicity
· Aquatic toxicity:

67-63-0 propan-2-ol
EC50/24h 9,714 mg/l (daphnia magna)
LC50/96h 9,640 mg/l (pimphales promelas)
· 12.2 Persistence and degradability No further relevant information available.
· Other information: The product is easily biodegradable.
· 12.3 Bioaccumulative potential
Non significant accumulation in organisms

67-63-0 propan-2-ol
LogPow 0.05 (/)
· 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 The product does not contain substances with endocrine disrupting properties.
· 12.7 Other adverse effects
· Additional ecological information:
· General notes:
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

· Uncleaned packaging:
· Recommendation: Disposal must be made according to official regulations.
· Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

· 14.1 UN number or ID number
· ADR/ADN, IMDG, IATA UN1219
· 14.2 UN proper shipping name
· ADR/ADN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL)
· IMDG, IATA ISOPROPANOL (ISOPROPYL ALCOHOL)
· 14.3 Transport hazard class(es)

· ADR/ADN, IMDG, IATA

· Class 3 Flammable liquids.
· Label 3
· 14.4 Packing group
· ADR/ADN, IMDG, IATA II
· 14.5 Environmental hazards:
· Marine pollutant: No
· 14.6 Special precautions for user Warning: Flammable liquids.
· Hazard identification number (Kemler code): 33
· EMS Number: F-E,S-D

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· Stowage Category	B
· 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	
· ADR/ADN	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	1L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
· Poisons Act
· Regulated explosives precursors

Substance is not listed.
· Regulated poisons

Substance is not listed.
· Reportable explosives precursors

Substance is not listed.
· Reportable poisons

Substance is not listed.

· Directive 2012/18/EU
· Named dangerous substances - ANNEX I Substance is not 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 50,000 t

· National regulations:

· Other regulations, limitations and prohibitive regulations
The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.
· 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.

· Department issuing SDS: Product safety department.
· 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
EINECS: European Inventory of Existing Commercial Chemical Substances

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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. 2: Flammable liquids – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3