

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

1.1. Product identifier

Product name : Glue Remover
 Product code : GR
 Product form : Mixture
 Product type : Organic solvents
 Product group : Blend

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

1.2.1. Relevant identified uses
 No additional information available

1.2.2. Uses advised against
 No additional information available

1.3. Details of the supplier of the safety data sheet

Signgeer Limited
 Valhalla Business Park, Dobles Lane,
 Holsworthy, Devon, EX22 6HN, UK
 T 0044 1409 259802
 hello@signgeer.com - www.signgeer.com

1.4. Emergency telephone number

Emergency number : 0044 1392 759787 (During office hours) NHS – 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3	H226
Serious eye damage/eye irritation, Category 2	H319
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336
Aspiration hazard, Category 1	H304
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. May cause drowsiness or dizziness. Causes serious eye irritation. May be fatal if swallowed and enters airways.

2.2. Label elements

Hazard pictograms (CLP) :



Signal word (CLP) : Danger

Hazardous ingredients : propan-2-ol; isopropyl alcohol; isopropanol; hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hazard statements (CLP) : H226 - Flammable liquid and vapour.
 H304 - May be fatal if swallowed and enters airways.
 H319 - Causes serious eye irritation.
 H336 - May cause drowsiness or dizziness.

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Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground and bond container and receiving equipment.
P241 - Use explosion-proof electrical equipment.
P261 - Avoid breathing vapours, spray, mist.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear eye protection, protective gloves, protective clothing.
P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a doctor, a POISON CENTER if you feel unwell.
P331 - Do NOT induce vomiting.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P370+P378 - In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder, Water spray, alcohol resistant 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 to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ethanol; ethyl alcohol	(CAS-No.) 64-17-5 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5	30-55	Flam. Liq. 2, H225 Eye Irrit. 2, H319
propan-2-ol; isopropyl alcohol; isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0 (REACH-no) 01-2119457558-25-XXXX	15-40	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	(CAS-No.) 1174522-20-3 (EC-No.) 807-936-6 (REACH-no) 01-2119463258-33-XXXX	30-40	Flam. Liq. 3, H226 STOT SE 3, H336 Asp. Tox. 1, H304

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.
First-aid measures after inhalation : Remove victim to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Gently wash with plenty of soap and water. Take off immediately all contaminated clothing.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May cause drowsiness or dizziness.
Symptoms/injuries after skin contact : Repeated exposure may cause skin dryness or cracking.
Contact during a long period may cause light irritation.
Symptoms/injuries after eye contact : Eye irritation.
Symptoms/injuries after ingestion : Risk of lung oedema.

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

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol resistant foam. Water spray. Dry powder. Foam. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Absorb spilled material with sand or earth. Do not absorb in sawdust, paper, cloth or other combustible absorbents. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Incompatible products : Strong acids.

Incompatible materials : Oxidizing materials.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

ethanol; ethyl alcohol (64-17-5) – Local name Ethanol		
United Kingdom - Occupational Exposure Limits EH40/2005 (Third edition, 2018). HSE	WEL TWA (mg/m ³)	1920 mg/m ³
	WEL TWA (ppm)	1000 ppm
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) – Local name Propan-2-ol		
United Kingdom - Occupational Exposure Limits EH40/2005 (Third edition, 2018). HSE	WEL TWA (mg/m ³)	999 mg/m ³
	WEL TWA (ppm)	400 ppm
	WEL STEL (mg/m ³)	1250 mg/m ³
	WEL STEL (ppm)	500 ppm

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8.2. Exposure controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Personal protective equipment	: Gloves. Safety glasses. Protective clothing.
Hand protection	: Protective gloves.
Eye protection	: Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment



Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State:	Liquid
Appearance:	Mobile liquid
Colour:	Colourless
Odour:	No data available
Odour threshold:	No data available
pH:	No data available
Relative evaporation rate (butyl acetate=1):	No data available
Melting point:	Not applicable
Freezing point:	No data available
Boiling point:	No data available
Flash point:	24 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Not applicable
Vapour pressure:	No data available
Relative Vapour density at 20°C:	No data available
Relative density:	No data available
Density:	0.782 g/cm ³
Solubility:	No data available
Low Pow:	No data available
Viscosity, kinematic:	~ 1.4mm ² /s
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidising properties:	No data available
Explosive limits:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

ethanol; ethyl alcohol (64-17-5)	
LD50 oral rat	10470 mg/kg
LD50 oral	3450 mg/kg (Mouse)
LD50 dermal rat	15800 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	124.7 mg/l/4h

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LD50 oral rat	5045 mg/kg
LD50 dermal rabbit	12800 mg/kg

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (1174522-20-3)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	3160 mg/kg
LC50, Inhalation, rat	15800 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	4951 mg/m ³ (4 Hours)

Skin corrosion/irritation : Repeated or prolonged contact may cause skin irritation
Additional information : Repeated exposure may cause skin dryness or cracking.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : May cause drowsiness or dizziness.
STOT-repeated exposure : Not classified
Aspiration hazard : May be fatal if swallowed and enters airways.

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Viscosity, kinematic ~ 1.4 mm²/s

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

ethanol; ethyl alcohol (64-17-5)	
LC50 fish 1	13000 mg/l Oncorhynchus mykiss (Rainbow trout)
LC50 fish 2	14200 mg/l Pimephales promelas (Fat-head Minnow)
EC50 Daphnia 1	12340 mg/l
EC50 72h algae (1)	275 mg/l Chlorella vulgaris
NOEC chronic crustacea	9.6 mg/l Daphnia magna
EC50, algae, Selenastrum capricornutum	> 100 mg/l (48 Hours)

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
LC50 fish 1	9640 mg/l Fathead minnow (Pimephales promelas)
EC50 Daphnia 1	> 100 mg/l
EC50 72h algae (1)	> 1000 mg/l (Desmodemus subspicatus)
EC50 96h algae (1)	> 1000 mg/l (Desmodemus subspicatus)

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12.2. Persistence and degradability

ethanol; ethyl alcohol (64-17-5)	
Persistence and degradability	Readily biodegradable
Biochemical oxygen demand (BOD)	0.8 - 0.967 g O ₂ /g substance
Chemical oxygen demand (COD)	1.7 g O ₂ /g substance
ThOD	2.1 g O ₂ /g substance
BOD (% of ThOD)	37.74 % ThOD
Biodegradation	84 % 20 days

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Persistence and degradability	Readily biodegradable

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (1174522-20-3)	
Persistence and degradability	Readily biodegradable
Biodegradation	80 % (28 days)

12.3. Bioaccumulative potential

ethanol; ethyl alcohol (64-17-5)	
Log Pow	-0.32
Bio accumulative potential	Low.

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Log Pow	0.05
Bio accumulative potential	No bioaccumulation.

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (1174522-20-3)	
Log Pow	5 - 6.7

12.4. Mobility in soil

ethanol; ethyl alcohol (64-17-5)	
Surface tension	24.5 mN/m
Ecology - soil	Product evaporates when in contact with the air.

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
Surface tension	22.7 mN/m
Ecology - soil	Very mobile. Soluble material/quickly disperses in water.

hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (1174522-20-3)	
Surface tension	0.0237 mN/m

12.5. Results of PBT and vPvB assessment

Component	
ethanol; ethyl alcohol (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics (1174522-20-3)	PBT: not relevant – no registration required vPvB: not relevant – no registration required

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information: Flammable vapours may accumulate in the container.

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SECTION 14: Transport information

ADR

1.	UN Number:	1993
2.	UN Proper shipping name:	Flammable Liquid, N.O.S
3.	Transport document description:	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III, (D/E)
4.	Transport hazard class(es):	3
5.	Packing group:	III
6.	Environmental hazards:	Dangerous for the environment: No
7.	Supplementary information:	Not available

IMDG

1.	UN Number:	1993
2.	UN Proper shipping name:	Flammable Liquid, N.O.S
3.	Transport document description:	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III
4.	Transport hazard class(es):	3
5.	Packing group:	III
6.	Environmental hazards:	Dangerous for the environment : No Marine pollutant : No
7.	Supplementary information:	Not available

IATA

1.	UN Number:	1993
2.	UN Proper shipping name:	Flammable Liquid, N.O.S
3.	Transport document description:	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III
4.	Transport hazard class(es):	3
5.	Packing group:	III
6.	Environmental hazards:	Dangerous for the environment : No
7.	Supplementary information:	Not available

ADN

1.	UN Number:	1993
2.	UN Proper shipping name:	Flammable Liquid, N.O.S
3.	Transport document description:	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III
4.	Transport hazard class(es):	3
5.	Packing group:	III
6.	Environmental hazards:	Dangerous for the environment : No
7.	Supplementary information:	Not available

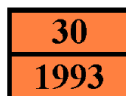
RID

1.	UN Number:	1993
2.	UN Proper shipping name:	Flammable Liquid, N.O.S
3.	Transport document description:	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III
4.	Transport hazard class(es):	3
5.	Packing group:	III
6.	Environmental hazards:	Dangerous for the environment : No
7.	Supplementary information:	Not available

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: F1
Special provisions (ADR)	: 274, 601
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1, TP29
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	



Tunnel restriction code (ADR)	: D/E
EAC code	: •3YE

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Transport by sea

Special provisions (IMDG)	: 223, 274, 955
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1, TP29
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: A

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

Inland waterway transport

Classification code (ADN)	: F1
Special provisions (ADN)	: 274, 601
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EX, A
Ventilation (ADN)	: VE01
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: F1
Special provisions (RID)	: 274, 601
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
Portable tank and bulk container special provisions (RID)	: TP1, TP29
Tank codes for RID tanks (RID)	: LGBF
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE4
Hazard identification number (RID)	: 30

14.7. Transport in bulk according to Annex II or 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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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SECTION 16: Other information

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-statements:

Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.