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SAFETY DATA SHEET


According to REACH-Regulation (EC) 1907/2006
amended by regulation (EC) 2020/878 (EU)

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name:	INVISIBLE SHIELD Glass & Surface Coating/Surface Protectant Liquid - RTU
Recommended use:	Coating agent
Product Code:	05-GP470
Supplier:	NFK Glazing & Industrial Supplies Ltd
Address:	28 Devlan Street, Mansfield, QLD 4122
Contact phone:	+61 7 3343 3377
Emergency phone:	1800 033 111

NFK Glazing
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Flam. Liq. 2: H225 Highly flammable liquid and vapour.

2.2 Label elements

Hazard pictograms



Signal word

DANGER

Hazard statements

H225 Highly flammable liquid and vapour.

Precautionary statements

P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local/national regulation.

2.3 Other hazards

Physico-chemical hazards

Vapours may form explosive mixture with air.

Other hazards

Further hazards were not determined with the current level of knowledge.

3. COMPOSITION INFORMATION ON INGREDIENTS

3.1 Substances

not applicable

3.2 Mixtures

The product is a mixture.

Range [%]	Substance
ca. 92	Ethanol CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5 GHS/CLP: Flam. Liq. 2: H225
1 - 8	Dimethylpolysiloxanes CAS: 94363-18-5

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Ensure supply of fresh air. Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
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.
Ingestion	Do not induce vomiting. Rinse mouth. Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

Cough
Redness
Nausea, vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to your doctor.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Foam, dry powder, water spray jet, carbon dioxide
Alcohol-resistant foam.

Extinguishing media that must not be used Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Carbon dioxide (CO₂)
Silicon compounds

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5.3 Advice for firefighters

Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Wear suitable protective equipment. For personal protection see SECTION 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Provide good room ventilation even at ground level (vapours are heavier than air).
Avoid contact with eyes and skin. Use personal protective equipment.
Keep out of reach of children and domestic animals.

Keep away from open flames, hot surfaces and sources of ignition.
Ignitable mixtures can be formed in the empty container.
Use explosion-proofed equipment/fittings and non-sparking tools.
Ground/bond container and receiving equipment.

Wash face and/or hands before break and end of work.
Use barrier skin cream.
Take off contaminated clothing and wash before reuse.
Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Provide solvent-resistant and impermeable floor.

Do not store together with oxidizing agents.
Do not store together with acids and alkalies.
Do not store together with food and animal food/diet.


Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from heat/overheating and from sun.
Keep in a cool place. Store in a dry place.
Store in a dark place.


7.3 Specific end use(s)

See product use, SECTION 1.2

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8. EXPOSURE CONTROLS: PERSONAL PROTECTION

8.1 Control parameters

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	If there is a risk of splashing: safety glasses (EN 166:2001)
Hand protection	Not required under normal conditions. In full contact: > 0.11 mm. butyl rubber, > 120 min (EN 374) The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Solvent-resistant protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not inhale vapours. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Not required under normal conditions. In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Form	liquid
Color	clear
Odor	alcoholic
Odour threshold	No information available.
pH-value	No information available.
pH-value [1%]	3
Boiling point [°C]	78
Flash point [°C]	10
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	4.4
Density [g/cm ³]	No information available.
Relative density	0.792
Bulk density [kg/m ³]	not applicable
Solubility in water	100 g/l
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not applicable
Kinematic viscosity	not relevant
Relative vapour density	> 1
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions


Reactions with alkalis (lyes).
Reactions with oxidizing agents.
Reactions with acids.


10.4 Conditions to avoid

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

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10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No decomposition if used and stored according to specifications.
In the event of fire: See SECTION 5.

11. TOXICOLOGICAL INFORMATION**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

Product
ATE-mix, oral, > 5000 mg/kg
Substance
Ethanol, CAS: 64-17-5
LD50, oral, Rabbit, 7060 mg/kg

Acute dermal toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Ethanol, CAS: 64-17-5
LD50, dermal, Rabbit, 7430 mg/kg

Acute inhalational toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
Ethanol, CAS: 64-17-5
LC50, inhalative, Rat, 37620 mg/m ³ /10h

Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
Ethanol, CAS: 64-17-5
adverse effect observed

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Substance
Ethanol, CAS: 64-17-5
no adverse effect observed

Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
- Fertility	

Substance
Ethanol, CAS: 64-17-5
NOAEL, oral, mouse, 20700 mg/kg bw/d (Effect on fertility), no adverse effect observed

- Development

Substance
Ethanol, CAS: 64-17-5
NOAEC, inhalative, Rat, 30400 mg/m ³ (Effect on developmental toxicity), no adverse effect observed

Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	

Toxicological data of complete product are not available.

11.2 Information on other hazards

Endocrine disrupting properties	No information available.
Other information	none

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Substance
Ethanol, CAS: 64-17-5
LC50, (48h), Daphnia sp., > 100 mg/l
LC50, (96h), fish, > 100 mg/l
EC50, (96h), Algae, > 100 mg/l

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	94% (CAS 64-17-5)(Lit.)

12.3 Bioaccumulative potential

log Pow: -0.32 (CAS 64-17-5) - Accumulation in organisms is not expected.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment or into the drainage.

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the authorities if necessary.

Waste no. (recommended)

070704*
160305*
200113*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances

14. TRANSPORT INFORMATION**14.1 UN number or ID number**

Transport by land according to ADR/RID 1170


Inland navigation (ADN) 1170

Marine transport in accordance with IMDG 1170

Air transport in accordance with IATA 1170

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14.2 UN proper shipping name

Transport by land according to ADR/RID	Ethanol solution
- Classification Code	F1
- Label	
- ADR LQ	1 I
- ADR 1.1.3.6 (8.6)	Transport category (tunnel restriction code) 2 (D/E)

Inland navigation (ADN)	Ethanol solution
- Classification Code	F1
- Label	

Marine transport in accordance with IMDG	Ethanol solution
- EMS	F-E, S-D
- Label	
- IMDG LQ	1 I

Air transport in accordance with IATA	Ethanol solution
- Label	

14.3 Transport hazard class(es)

Transport by land according to ADR/RID	3
Inland navigation (ADN)	3
Marine transport in accordance with IMDG	3
Air transport in accordance with IATA	3

14.4 Packing group

Transport by land according to ADR/RID	II
Inland navigation (ADN)	II
Marine transport in accordance with IMDG	II
Air transport in accordance with IATA	II

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

No information available.

15. REGULATORY INFORMATION

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

EEC-REGULATIONS	2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)
NATIONAL REGULATIONS (EU):	
- Observe employment restrictions for people	Observe employment restrictions for young people. SEVESO III (Directive 2012/18/EU), Hazard categories in accordance with Regulation (EC) No 1272/2008: P5c FLAMMABLE LIQUIDS Qualifying quantity (tonnes), Column 2: 5 000 Qualifying quantity (tonnes), Column 2: 50 000
- VOC (2010/75/CE)	ca. 92 %

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.


16. OTHER INFORMATION


16.1 Hazard statements (SECTION 3)

H225 Highly flammable liquid and vapour.

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16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 EL50 = Median effective loading
 ELINCS = European List of Notified Chemical Substances
 EmS = Emergency Schedules
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 IVIS = In vitro irritation score
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 LL50 = Median lethal loading
 LQ = Limited Quantities
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV®/TWA = Threshold limit value – time-weighted average
 TLV®STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure**

Flam. Liq. 2: H225 Highly flammable liquid and vapour. (On basis of test data)

Modified position

SECTION 5 been added: Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 5 been added: Silicon compounds

SECTION 10 been added: No decomposition if used and stored according to specifications.