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

1.1 Product identifier

This Information covers the composition of the following products:
Eakin Protect barrier film (aerosol and wipes) product codes 839025, 839025s, JP839025, 839026, JP839026, 839026s, 130260, 130260s, 130261 and any of the above product codes prefixed by SP which denotes a sample of the same item.

1.2 Relevant intended uses of the substances or mixture and uses advised against

Eakin Protect Barrier Film is a solution supplied as wipes or aerosol to provide a barrier film on sensitive skin.

Uses advised against: Do not use on broken skin or open wounds. Do not use on delicate parts of the body (eyes, mouth, ears, nose, genitalia).

1.3 Details of the supplier of the safety data sheet

Supplier
TG Eakin Limited

Street
15 Ballystockart Road

Postal code/city
Comber, BT23 5QY, Northern Ireland, UK

Telephone / Telefax
T+44 2891 871000 F +44 2891 871111

Information Contact
Mark Stinson (E-Mail: Mark.Stinson@eakinhealthcare.com)

1.4 Emergency telephone number

+44 2891 871000 (only at office hours 9:00 - 16:30 GMT)

2. Hazards identification

2.1 Classification of the substance or mixture

Acute aquatic toxicity	Category 1 (H400)
Chronic aquatic toxicity	Category 2 (H411)
Flammable liquids	Category 2 (H225)

2.2 Label elements

- **Hazard pictograms**

Flammable

Hazardous to the Environment

- **Signal word**
  Danger
- **Hazard statements**

H225	Highly flammable liquid and vapour
H400	Very toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects
EUH208	Contains Carvone. May produce an allergic reaction

- **Precautionary statements – EU (28, 1272/2008)**

P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking
P273	Avoid release to the environment

P280	Wear protective gloves/protective clothing/eye protection/face protection
P370+P378	In case of fire: use dry Sodium Carbonate to extinguish
P391	Collect spillage
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Other hazards
No information available.

3. Composition / information on ingredients

3.1 Substances
Not applicable

3.2 Mixtures

Chemical name	EC No	CAS No	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
Hexamethyldisiloxane***	203-492-7	107-46-0	01-2119496108-31	Flam. Liq. 2 (H225) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	50-100
Decamethylcyclopentasiloxane	208-764-9	541-02-6	01-2119511367-43	No data available	<3
Carvone	229-352-5	6485-40-1	01-2119962458-25	Skin Sens. 1 (H317)	0.1-1
Dodecamethylcyclohexasiloxane	208-762-8	540-97-6	No data available	No data available	<0.25
Octamethylcyclotetrasiloxane	209-136-7	556-67-2	No data available	Flam. Liq. 3 (H226) Repr. 2 (H361f) Aquatic Chronic 4 (H413)	< 0.1

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59): Decamethylcyclopentasiloxane, Dodecamethylcyclohexasiloxane

Full text of H and EUH phrases – see section 16

4. First-aid measures

4.1 Description of first aid measures

- **General advice**
  In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
- **After inhalation**
  Remove to fresh air
- **After skin contact**
  No action required as product is designed for skin applications, however, if causing irritation, discontinue and wash with soap and warm water. If irritation continues seek medical attention.
- **After eye contact**
  May cause irritation. Remove contact lenses for better cleaning. Keep eyelids open. Irrigate well with plenty of water for at least 15 min. Contact a physician if necessary.
- **After ingestion**
  Rinse mouth. Do not induce vomiting. If vomiting occurs or breathing has stopped, contact a physician immediately.
- **Self-protection of the first aider**
  Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves

4.2 Most important symptoms and effects, both acute and delayed

Allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed
Keep victim warm and quiet

5. Fire-fighting measures

5.1 Extinguishing media

- Suitable extinguishing media
  Dry chemical. Carbon dioxide (CO2). water spray or regular foam. Move containers from fire area if it can be done without risk
- Unsuitable extinguishing media
  9Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture
Vapours may form explosive mixtures with air. Vapours may travel to source of ignition and flash back. Most vapours are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapour explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Hazardous combustion products Carbon dioxide (CO2), carbon monoxide (CO), nitrogen oxides (NOx)

5.3 Advice for firefighters
Appropriate self-contained breathing apparatus and chemical protective clothing must be worn. Do not inhale explosion and combustion gases. Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from firefighting to enter drains or water courses.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Remove all sources of ignition. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Water spray may reduce vapour but may not prevent ignition in closed spaces.

6.2 Environmental precautions
Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up
Methods for Containment A vapour suppressing foam may be used to reduce vapours. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Dyke far ahead of liquid spill for later disposal.
Methods for cleaning up Use personal protective equipment as required. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dam up. Pick up and transfer to properly labelled containers. Clean contaminated surface thoroughly. Prevent product from entering drains. Take precautionary measures against static discharges..

6.4 References to other sections
See section 8 for national exposure control parameters. See Section 12 for additional Ecological Information.

7. Handling and storage

7.1 Precautions for safe handling
Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. All equipment used when handling the product must be grounded. Do not breathe gas/fumes/vapour/spray. Use personal protective equipment as required. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

General hygiene conditions
When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended

7.2 Conditions for safe storage, including any incompatibilities
Storage Conditions

Keep tightly closed in a dry and cool place. Keep in properly labelled containers. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in an area equipped with sprinklers. Ensure adequate ventilation. Keep only in original container. Do not allow to enter into soil/subsoil. Restrict access to stockrooms.

7.3 Specific end uses

Risk Management Methods (RMM)
The information required is contained in this Safety Data Sheet.

8. Exposure controls/personal protection

8.1 Control Parameters

Exposure limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) Worker

Chemical name	oral	dermal	inhalation
Hexamethyldisiloxane 107-46-0	-	333 mg/kg bw/day	53.4 mg/m3

Derived No Effect Level (DNEL) Consumer

Chemical name	oral	dermal	inhalation
Hexamethyldisiloxane 107-46-0	0.27 mg/kg bw/day	167 mg/kg bw/day	13.3 mg/m3

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater sediment	Sea water
Hexamethyldisiloxane 107-46-0	0.002 mg/l	0.37 mg/kg	0.0002 mg/l
Chemical name	**Sea sediment**	**Soil**	**Impact on sewage treatment**
Hexamethyldisiloxane 107-46-0	0.037 mg/kg	0.073 mg/kg	>= 10 mg/l

8.2 Exposure controls

Engineering controls	Provide adequate ventilation as well as local exhaustion at critical locations.
Personal Protective Equipment	
Eye/face Protection	Wear safety glasses with side shields (or goggles).
Hand protection	Wear protective gloves. To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.
Skin and Body Protection	Antistatic footwear. Suitable protective clothing. Wear protective gloves. To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374.
Respiratory protection	Respiratory protection necessary at: insufficient ventilation. exposure limit overshoot. insufficient exhaust. Handling larger quantities. Use: Positive Pressure Self-Contained Breathing Apparatus (SCBA) / Filtering device (full mask or mouthpiece) with filter.
Recommended Filter type:	ABEK1/ ABEK2.
Environmental exposure controls	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains.

9. Physical and chemical properties

9.1 Basic physical and chemical properties

Physical state	Liquid		
Appearance	No information available	**Odour**	Characteristic
Colour	Colourless	**Odour threshold**	No information available
Property	**Values**	**Remarks**	
pH		No information available	
Melting point/freezing point		No information available	
Boiling point / boiling range	approx. 100 °C / 212 °F		
Flash Point	< 0 °C / < 32 °F		
Evaporation Rate		No information available	
Flammability (solid, gas)		No information available	
Flammability Limit in Air			
Upper flammability limit	26.00 Vol-%		
Lower flammability limit	0.68 Vol-%		
Vapour pressure	No data available	@ 20◦C	
	Approx. 175.0 hPa	@50◦C	
Vapour Density		No information available	
Specific gravity	Approx. 0.770 g/cm3	@ 20◦C	
Water solubility	No data available	@ 20◦C	
Solubility(ies)		No information available	
Partition coefficient		No information available	
Autoignition Temperature		No information available	
Decomposition temperature		No information available	
Kinematic viscosity	No data available	@40◦C	
Dynamic viscosity	No data available	@40◦C	
		@20◦C	
Explosive properties	No information available		
Oxidising properties	No information available		

9.2 Other information

No further relevant information available.

10. Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See Section 7).

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Take precautionary measures against static discharges. Keep away from sources of ignition. No smoking.

10.5 Incompatible materials

Incompatible with: oxidising agent. Acids. Bases.

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating and toxic gases and vapours. Carbon dioxide (CO_2). Carbon Monoxide (CO). Nitrogen oxides (NOx).

11. Toxicological information

11.1 Information on toxicological effects

This product is a medical device and has been assessed in accordance with 2017/745 Medical Device Regulation. This product may cause an allergic skin reaction.

Acute toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation No data available.
Eye Contact No data available.
Skin contact No data available.
Ingestion No data available.

Unknown acute toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity.

Chemical name	Oral LD50	Dermal LD50	Inhalation LD50
Hexamethyldisiloxane	> 16 ml/kg (Rat)	> 2000 mg/kg (Rabbit)	approx. 15956 ppm (Rat 4h)
Carvone	= 1640 mg/kg (Rat) = 5400 mg/kg (Rat)		

Skin corrosion/irritation No information available

Sensitisation No information available

Germ Cell Mutagenicity No information available

Carcinogenicity No information available

Reproductive Toxicity No information available

STOT - single exposure No information available

STOT - repeated exposure No information available

Aspiration Hazard No information available

11.2 Information on other hazards
No information available

12. Ecological information

12.1 Toxicity / Aquatic toxicity
Very toxic to aquatic life. Toxic to aquatic life with long lasting effects

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Product Information

Acute (short-term) algae toxicity

EC50 No information available
EC0 No information available
IC50 No information available
IC0 No information available
ErC50 No information available
EbC50 No information available

Acute (short-term) fish toxicity

LC50 No information available
LC0 No information available
EC50 No information available
EC0 No information available

Acute (short-term) aquatic invertebrate toxicity

EC50 No information available
EC0 No information available

Chronic (long-term) algae toxicity

NOEC No information available
LOEC No information available

Chronic (long-term) fish toxicity

NOEC No information available
LOEC No information available

Chronic (long-term) aquatic invertebrate toxicity

NOEC No information available
LOEC No information available

Chemical name	Algae / Aquatic plants	Fish	Crustacea
Hexamethyldisiloxane	EC50: > 0.55 mg/l (Selenastrum capricornutum 70h)	LC50: approx. 0.46 mg/l (Oncorhynchus mykiss 96h)	NOEC: approx. 0.08 mg/l (Daphnia magna 504h); EC50: > 0.93 mg/l (Daphnia magna 48h)
Carvone	-	6.1: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	-

12.2 Persistence and degradability

Product information

Biodegradation No information available
BOD No information available
ThCO2 No information available
DOC No information available

Chemical name	Biodegradation
Hexamethyldisiloxane 107-46-0	Biodegradation (Degree of elimination): 2% (672h OECD 301 C)

12.3 Bio accumulative potential

Product information

Chemical name	Partitiion coefficient
Hexamethyldisiloxane 107-46-0	5.0
Decamethylcyclopentasiloxane	5

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be persistent, bio-accumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB). This preparation contains no substance considered to be very persistent nor very bio-accumulating (vPvB).

12.6 Endocrine disrupting properties

No information available

12.7 Other adverse effects

No information available

13. Disposal considerations

The disposal should always be compliant with national, federal, state and local regulations. The product should not be discharged to the environment.

Waste from residues / unused products	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Contaminated packages must be completely emptied and can be re-used following proper cleaning. Clean IBCs or drums at approved facility. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself
OTHER INFORMATION	Waste codes should be assigned by the user based on the application for which the product was used

14. Transport information

ADR	
14.1 UN number	UN1950
14.2 UN proper shipping name	Aerosols, flammable
14.3 Transport hazard class(es)	2.1
Labels	2
14.4 Packing group	-
Description	UN1950, Aerosols, flammable
14.5 Environmental hazards	Yes
14.6 Special precautions for user	None
Classification code	5F
Tunnel restriction code	(D/E)
Limited Quantity (LQ)	1 L
ADR hazard ID (Kemmler number)	33
Note	-

RID	
14.1 UN number	UN1950
14.2 UN proper shipping name	Aerosols, flammable
14.3 Transport hazard class(es)	2.1
Labels	2
14.4 Packing group	-
Description	UN1950, Aerosols, flammable
14.5 Environmental hazards	Yes
14.6 Special precautions for user	None
Classification code	5F
Limited Quantity (LQ)	1 L
Note	-

IMDG	
14.1 UN number	UN1950
14.2 UN proper shipping name	Aerosols, flammable
14.3 Transport hazard class(es)	2.1
Subsidiary hazard class(es)	-
14.4 Packing group	-
Description	UN1950, Aerosols, flammable
14.5 Environmental hazards	This material meets the definition of a marine pollutant
14.6 Special precautions for user	None
EmS-No	F-D, S-U
Limited Quantity (LQ)	1 L
Note	-
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	No information available

IATA	
14.1 UN number	UN1950
14.2 UN proper shipping name	Flammable liquid
14.3 Transport hazard class(es)	2.1
Subsidiary hazard class(es)	-
14.4 Packing group	-
Description	UN1950, Aerosols, flammable
14.5 Environmental hazards	Yes

14.6 Special precautions for user	None
ERG code	3H
Limited Quantity (LQ)	1 L
Note	-

15. Regulatory information

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

National regulations
See section 8 for national exposure control parameters

Germany

Water hazard class (WGK) Hazardous to water (WGK 2)

Storage class 3

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59): Decamethylcyclopentasiloxane, Dodecamethylcyclohexasiloxane

International inventories

All of the components in the product are on the following Inventory lists: TSCA (United States), Europe (EINECS/ELINCS/NLP).

15.2 **Chemical safety assessment**
For this substance a chemical safety assessment has not been carried out. Chemical safety assessments for substances in this mixture were not carried out.

16. Other information

Full text of H-Statements referred to under sections 2 and 3

H225 - Highly flammable liquid and vapour irritation
H400 - Very toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

16.1 **Indication of changes**
Update to section 14.

16.2 **Abbreviations and acronyms**
None

16.3 **Key literature references and sources for data**
None

16.4 **Training advice**
None

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

End of Safety Data Sheet