

Safety Data Sheet

according to Regulation (EC) No. 2015/830

9-20676-F

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Issue Date 2018-08-28 Revision Date 2018-08-28 Version 4

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

1.1 Product identifier

Product Name 9-20676-F

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

Identified uses Adhesives

Uses advised against No information available

1.3 Details of the supplier of the safety data sheet

<u>Manufacturer</u> <u>Manufacturing Sites</u> <u>Supplier</u>

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1.4 Emergency Telephone

Emergency Telephone Chemtrec 001-703-527-3887 (24hrs)

Austria +(43)-13649237	Germany 0800-181-7059	Netherlands +(31)-858880596	Switzerland +(41)435082011
Belgium +(32)-28083237	Greece +(30)-2111768478	Norway +(47)-21930678	Ukraine +(380)-947101374
Bulgaria +(359)-32570104	Hungary +(36)-18088425	Poland +(48)-223988029	UK (London) +(44)-870-8200418
Croatia +(385)-17776920	Ireland +(353)-19014670	Portugal +(351)-308801773	
Czech Republic +(420)-228880039	Italy 800-789-767	Slovakia +(423)-233057972	Israel (IL) +(972)-37630639
Denmark +(45)-69918573	Latvia +(371)-66165504	Slovenia +(386)-18888016	Russia 8-800-100-6346
Finland	Lithuania +(370)-52140238	Spain 900-868538	Saudi Arabia +(966)-8111095861
France	Luxembourg +(352)-20202416	Sweden +(46)-852503403	Turkey +(90)-212-7055340

Australia +(61)-290372994	India 000-800-100-7141	Indonesia 001-803-017-9114	New Zealand +(64)-98010034
Malaysia +(60)-327884561	Singapore 800-101-2201	Taiwan 00801-14-8954	Thailand 001-800-13-203-9987

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitisation	Category 1A - (H317)
Specific target organ toxicity (STOT) — single exposure	Category 3 - (H335)
Chronic aquatic toxicity	Category 3 -(H412)

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Physical hazards

None

Target Organ Effects

Respiratory system, EYES, Skin.

2.2 Label elements



Signal word

Danger

Hazard statements

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H412 - Harmful to aquatic life with long lasting effects

Contains Isobornyl Acrylate, 2-hydroxy-3-phenoxypropyl, 2-Hydroxyethyl methacrylate, 2-(2-ethoxyethoxy)ethyl acrylate Contains tert-Butyl Perbenzoate, Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide - EUH208 - May produce an allergic reaction

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Avoid breathing dust/fume/gas/mist/vapours/spray Contaminated work clothing should not be allowed out of the workplace Use only outdoors or in a well-ventilated area Avoid release to the environment

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing IF ON SKIN: Gently wash with plenty of soap and water Take off contaminated clothing and wash it before reuse

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

2.3 Other Information

Unknown Acute Toxicity

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

Environmental product testing for acute and chronic aquatic effects determined classification to be Category 3

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

3.2. Mixtures

Hazardous components

Chemical Name	EC No	CAS No	Weight-%	REACH Registration Number	GHS Classification
Isobornyl Acrylate	227-561-6	5888-33-5	25 - 39	01-2119957862-25-0011	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Chronic 1 (H411)
2-hydroxy-3-phenoxypropyl	241-045-8	16969-10-1	10 - 24		Skin Sens. Cat 1 (H317)
2-Hydroxyethyl methacrylate	212-782-2	868-77-9	10 - 24	01-2119490169-29-0022	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) Skin Sens. 1 (H317)
2-(2-ethoxyethoxy)ethyl acrylate	230-811-7	7328-17-8	10 - 24		Acute Tox.4 (H312) Skin Irrit. 2 (H315) Eye Irrit. 2B (H320) Skin Sens. 1 (H317)
Acrylic acid	201-177-9	79-10-7	3 - <5		Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1 (H314) Aquatic Acute 1 (H400)
3-trimethoxysilylpropylmethacrylate	219-785-8	2530-85-0	1 - <3		Skin Sens. 1 (H317)
tert-Butyl Perbenzoate	210-382-2	614-45-9	<1		Org. Perox C (H242) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)
Diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	278-355-8	75980-60-8	<1		Skin Sens. 1B (H317) Repr. 2 (H361f) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)
2,2-Dimethoxy-1,2-diphenyl ethanone	246-386-6	24650-42-8	<1		Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

Full text of H- and EUH-phrases: see section 16

Section 4: First aid measures

4.1 Description of first aid measures

General advice

Use first aid treatment according to the nature of the injury.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Eye contact

Flush eyes with water for at least 15 minutes. Get medical attention if eye irritation develops or persists.

Inhalation

Remove to fresh air, If symptoms persist, call a doctor.

Ingestion

Rinse mouth, Get medical attention.

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

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

Main symptoms

Itching. Rashes.

4.3 Indication of any immediate medical attention and special treatment needed

Note to doctors

Treat symptomatically.

Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use CO2, dry chemical, or foam.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture.

Specific hazards arising from the chemical

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

Hazardous combustion products

Hazardous decomposition products due to incomplete combustion.

5.3 Advice for firefighters

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus and protective suit, Wear personal protective equipment.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Ensure adequate ventilation. Wear personal protective equipment.

For emergency responders

Use personal protection recommended in Section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so

Try to prevent the material from entering drains or water courses

Local authorities should be advised if significant spillages cannot be contained

See Section 12 for additional Ecological Information

6.3 Methods and material for containment and cleaning up

Methods for containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4. Reference to other sections

See section 13 for more information.

Section 7: HANDLING AND STORAGE

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7.1 Precautions for safe handling.

Advice on safe handling Ensure adequate ventilation

Protect from light

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice Avoid breathing vapours, mist or gas Wash hands before breaks and at the end of workday Regular cleaning of equipment, work area and clothing is recommended When using do not eat, drink or smoke

Contaminated work clothing should not be allowed out of the workplace

7.2 Conditions for safe storage, including any incompatibilities.

Technical measures and storage conditions

Keep container tightly closed in a dry and well-ventilated place Protect from light Store locked up

7.3 Specific end uses

Exposure scenario

No information available.

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Exposure Limits

Chemical Name	Ireland	Norway	Poland	Portugal	Switzerland
Isobornyl Acrylate 25 - 39					S+
2-hydroxy-3-phenoxypropyl 10 - 24					S+
2-Hydroxyethyl methacrylate 10 - 24		TWA 2 ppm TWA 11 mg/m³ A+ STEL 4 ppm STEL 16.5 mg/m³			S+
2-(2-ethoxyethoxy)ethyl acrylate 10 - 24					S+
Acrylic acid 3 - <5	TWA 2 ppm TWA 6 mg/m³ STEL 6 ppm STEL 18 mg/m³	TWA 10 ppm TWA 30 mg/m³ STEL 15 ppm STEL 45 mg/m³	TWA 10 mg/m³ STEL 29.5 mg/m³	TWA 2 ppm C(A4) P*	SS-C** TWA 10 ppm TWA 30 mg/m³ STEL 10 ppm STEL 30 mg/m³
3-trimethoxysilylpropylmethacrylate 1 - <3					S+

	Chemical Name	Germany	The Netherlands	Austria	Italy	Spain
Γ	Acrylic acid	AGW 10 ppm				TWA 10 ppm
1	3 - <5	AGW 30 mg/m ³				TWA 29 mg/m ³
1						STEL 20 ppm
						STEL 59 mg/m ³
L						S*

Derived No Effect Level (DNEL)

No information available.

Predicted No Effect Concentration (PNEC)

No information available.

8.2 Exposure controls

Occupational exposure controls

Engineering Measures

Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Hygiene Measures

When using do not eat, drink or smoke, Wash hands before eating, drinking or smoking, Avoid contact with skin, eyes or clothing.

Personal protective equipment

General Information

Use personal protective equipment in good condition.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hand Protection

Nitrile rubber, Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Eye/face protection

Safety glasses with side-shields, If splashes are likely to occur, wear:, Goggles.

Skin and body protection

Long sleeved clothing, Apron, Impervious gloves.

Environmental Exposure Controls

Do not allow material to contaminate ground water system.

Section 9: Physical and chemical properties

9.1 Information on basic physical Physical state Appearance Colour	and chemical properties liquid transparent colourless	Odour Odour threshold	Characteristic No information available
<u>Property</u>	<u>Values</u>	Remarks • Method	
рН		No information available	
Melting point / freezing point		No information available	
Boiling point / boiling range		No information available	
Flash point	101 °C / 214 °F		
Evaporation rate		No information available	
Flammability (solid, gas)		No information available	
Flammability Limit in Air			
Upper flammability limit		No information available	
Lower flammability limit		No information available	
Vapour pressure		No information available	
Vapour density		No information available	
Specific Gravity		No information available	
Water Solubility	Practically insoluble		

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No information available

No information available No information available

No information available

No information available

Solubility in other solvents

Partition coefficient: n-octanol/water

Autoignition temperature

Decomposition temperature

Dynamic viscosity 400 cP

Kinematic viscosity

Explosive properties No information available **Oxidising properties** No information available

9.2 Other Information

Softening point No information available Molecular weight No information available No information available **VOC Content (%)** No information available Density **Bulk density** No information available

Section 10: Stability and reactivity

10.1 Reactivity

Reactivity

None under normal use conditions.

No information available.

10.2 Chemical stability

Stability

Stable under normal conditions

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

10.3 Possibility of Hazardous Reactions

Hazardous polymerisation

None under normal processing.

Hazardous Reactions

None under normal processing.

10.4 Conditions to avoid

Protect from light, Heat, flames and sparks.

10.5 Incompatible materials

Amines, Oxygen scavengers, Strong oxidising agents, Strong acids, Strong bases, Thiosulfates.

10.6 Hazardous Decomposition Products

None under normal use conditions.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product Information

Inhalation There is no data for this product. There is no data for this product. Eye contact

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Skin Contact IngestionThere is no data for this product.
There is no data for this product.

Unknown acute toxicity

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

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 12,291.00 mg/kg
ATEmix (dermal) 6,820.00 mg/kg
ATEmix (inhalation-dust/mist) 36.90 mg/l
ATEmix (inhalation-vapour) 270.00 mg/l

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isobornyl Acrylate	= 4890 mg/kg (Rat)	> 5 g/kg (Rabbit)	
2-Hydroxyethyl methacrylate	= 5050 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	
2-(2-ethoxyethoxy)ethyl acrylate		LD50 > 1,000 mg/kg (Rabbit)	
Acrylic acid	= 193 mg/kg (Rat)	= 280 μL/kg (Rabbit)	= 5300 mg/m ³ (Rat) 2 h
	= 33500 µg/kg (Rat)	= 295 mg/kg (Rabbit)	
3-trimethoxysilylpropylmethacrylate	> 5000 mg/kg (Rat)		
tert-Butyl Perbenzoate	= 4838 mg/kg (Rat)	= 3,817 mg/kg (Rabbit)	
2,2-Dimethoxy-1,2-diphenyl ethanone	>2000 mg/kg (Rat)		

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Sensitisation

May cause sensitisation of susceptible persons.

Mutagenic effects

No information available.

Carcinogenic effects

Reproductive toxicity

No information available.

STOT - single exposure

Target Organ Effects

Respiratory system, EYES, Skin.

Aspiration hazard

No information available.

Section 12: Ecological information

12.1 Toxicity

Ecotoxicity

Harmful to aquatic life with long lasting effects

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

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Acute aquatic toxicity

Product Information

Environmental product testing for acute and chronic aquatic effects determined classification to be Category 3

Component Information

Chemical Name	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to algae
Isobornyl Acrylate	LC50 = 1.8 mg/L 96 h	EC 50 = 1.1 mg/L 48 h	ErC 50 = 2.7 mg/L 96 h
	(Danio rerio)	(Daphnia magna)	(Pseudokirchneriella subcapitata)
2-Hydroxyethyl methacrylate	LC50 = 227 mg/L 96 h	EC50 > 380 mg/l 48 h	-
	(Pimephales promelas)	(Daphnia magna)	
Acrylic acid	LC50 = 222 mg/L 96 h	EC50 = 95 mg/L 48 h	EC50 0.04 mg/L 72 h
·	(Brachydanio rerio)	_	(Desmodesmus subspicatus)
3-trimethoxysilylpropylmethacrylate	LC50 > 1024,00 mg/l 96 h	EC50 > 876,00 mg/l 48 h	EC50 > 536,00 mg/l 72 h
	(Brachydanio rerio)	(Daphnia magna)	(Scenedesmus subspicatus)
tert-Butyl Perbenzoate LC50 1.6 mg/l 96 h		EC50 11 mg/L 48 h	EC50 1.3 mg/l 72 h
	(Brachydanio rerio)	(Daphnia magna)	(Pseudokirchneriella subcapitata)
Diphenyl (2,4,6-trimethylbenzoyl)	LC50 10 mg/l 48 h	-	-
phosphine oxide	(Oryzias latipes)		
2,2-Dimethoxy-1,2-diphenyl	LC50 6 mg/L 96 h	EC50 26 mg/L 48 h	EC50 0.17 mg/L 72 h
ethanone	(Lepomis macrochirus)	(Daphnia magna)	_

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Chemical Name	log Pow
Isobornyl Acrylate	4.52
2-Hydroxyethyl methacrylate	0.47
Acrylic acid	0.46
tert-Butyl Perbenzoate	3

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects.

None

Section 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from residues / unused products

Should not be released into the environment, Dispose of in accordance with local regulations.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal, Dispose of as hazardous waste in compliance with local and national regulations.

Other Information

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Section 14: Transport information

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IMDG/IMO

14.1 UN/ID noNot regulated14.2 Proper shipping nameNot regulated14.3 Hazard ClassNot regulated14.4 Packing GroupNot regulated14.5 Marine pollutantNot applicable

14.6 Special Provisions None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available

ADR/RID

14.1 UN/ID noNot regulated14.2 Proper shipping nameNot regulated14.3 Hazard ClassNot regulated14.4 Packing GroupNot regulated14.5 Fish and treeNot applicable

14.6 Special Provisions None

ICAO/IATA

14.1 UN/ID noNot regulated14.2 Proper shipping nameNot regulated14.3 Hazard ClassNot regulated14.4 Packing GroupNot regulated14.5 Fish and treeNot applicable

14.6 Special Provisions None

Section 15: Regulatory information

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

WGK Classification

Water endangering class = 1 (self classification)

International Inventories

Complies **AICS** Complies **DSL/NDSL** Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECI** Not listed **PICCS NZIoC** Not listed TCSI Complies **TSCA** Complies

Legend:

AICS - Australian Inventory of Chemical Substances

 $\textbf{DSL/NDSL} \ \ \textbf{-} \ \textbf{Canadian Domestic Substances List/Non-Domestic Substances List}$

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

15.2 Chemical Safety Assessment

No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

H226 - Flammable liquid and vapour

H242 - Heating may cause a fire

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H320 - Causes eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H341 - Suspected of causing genetic defects

H350 - May cause cancer

H361d - Suspected of damaging the unborn child

H361f - Suspected of damaging fertility

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H401 - Toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

H411 - Toxic to aquatic life with long lasting effects

H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA:	time weighted average	STEL:	Short term exposure limit
Ceiling:	Maximum limit value:	S*	Skin designation

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Revision Note Not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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