

Safety Data Sheet

Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier Product Name • Rapid Mask Films

Product Description • Green film.

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

Relevant identified use(s) • Photostencil film

Section 2: Hazards Identification

EU/EEC

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010] According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

CLP • Skin Irritation 2 - H315
Skin Sensitization 1 - H317
Eye Irritation 2 - H319

DSD/DPD • Irritant (Xi) Sensitizer

R36/38, R43

2.2 Label Elements

CLP

WARNING



Hazard statements • H315 - Causes skin irritation
H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

Precautionary statements

Prevention • P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.
P264 - Wash thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace. P280 -
Wear protective gloves/protective clothing/eye protection/face protection.

Response • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P321 - Specific treatment, see supplemental first aid information. P362 -
Take off contaminated clothing and wash before reuse.

Storage/Disposal • P501 - Dispose of content and/or container in accordance with local, regional, national,
and/or international regulations.

DSD/DPD



Risk phrases • R36/38 - Irritating to eyes and skin.
R43 - May cause sensitization by skin contact.

Safety phrases • S24 - Avoid contact with skin.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical
advice.
S37 - Wear suitable gloves.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the
label where possible).

2.3 Other Hazards

CLP • No data available

DSD/DPD • No data available

UN GHS

According to Third Revised Edition

2.1 Classification of the substance or mixture

UN GHS • Skin Irritation 2 - H315
Skin Sensitization 1 - H317
Eye Irritation 2 - H319

2.2 Label elements

UN GHS

WARNING



Hazard statements • H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

Precautionary statements

Prevention • P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.
P264 - Wash thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Response • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.
P321 - Specific treatment, see supplemental first aid information. P362 -
Take off contaminated clothing and wash before reuse.

Storage/Disposal • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

2.3 Other hazards

UN GHS • No data available

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS 2012 • Skin Irritation 2 - H315
Skin Sensitization 1 - H317
Eye Irritation 2 - H319

2.2 Label elements

OSHA HCS 2012

WARNING



Hazard statements • Causes skin irritation - H315
May cause an allergic skin reaction - H317
Causes serious eye irritation - H319

Precautionary statements

Prevention • Avoid breathing dust/fume/gas/mist/vapors/spray. - P261
Wash thoroughly after handling. - P264
Contaminated work clothing should not be allowed out of the workplace. - P272
Avoid release to the environment. - P273
Wear protective gloves/protective clothing/eye protection/face protection. - P280

Response • IF ON SKIN: Wash with plenty of soap and water. - P302+P352
If skin irritation or rash occurs: Get medical advice/attention. - P333+P313
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338 If eye irritation persists: Get medical advice/attention. - P337+P313
Specific treatment, see supplemental first aid information. - P321
Take off contaminated clothing and wash before reuse. - P362

Storage/Disposal • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

2.3 Other hazards

OSHA HCS 2012 • No data available

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS

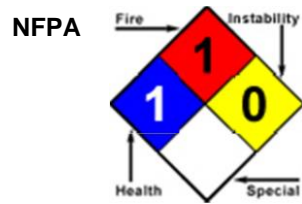
- Other Toxic Effects - D2B

2.2 Label elements**WHMIS**

- Other Toxic Effects - D2B

2.3 Other hazards**WHMIS**

- No data available

2.4 Other information**Key to abbreviations**

= See Section 16 for full text of R and S phrases.

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients**3.1 Substances****3.2 Mixtures**

Hazardous Components					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Acrylic acid, triester with 2ethyl-2-(hydroxymethyl)-1,3propanediol	CAS:15625-89-5 EC Number:239-701-3 EINECS:239701-3	15% TO 25%	Ingestion/Oral-Rat LD50 • 5190 µl/kg Skin-Rabbit LD50 • 5170 mg/kg	WHMIS: UN GHS: Eye Irrit. 2A; Skin Irrit. 2; Skin Sens. 1 EU DSD/DPD: Irritant(Xi); R36/38; R43 EU CLP: OSHA HCS 2012:	
Ethanone, 2,2-dimethoxy-1,2diphenyl-	CAS:24650-42-8 EINECS:246386-6	0.2% TO 0.4%		WHMIS: UN GHS: Skin Sens. 1 EU DSD/DPD: EU CLP: OSHA HCS 2012:	Key to

abbreviations

= See Section 16 for full text of R phrases

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures**4.1 Description of first aid measures****Inhalation**

- IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration and call 911 or emergency medical service.

- Skin**
 - IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
- Eye**
 - IF IN EYES: 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**
 - If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- No data available

4.3 Indication of any immediate medical attention and special treatment needed

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media • SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

Media LARGE FIRE: Water spray, fog or regular foam.

Unsuitable Extinguishing Media • No data available

Firefighting Procedures

• LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire.

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

Keep unauthorized personnel away.

Ventilate closed spaces before entering.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Some of these materials may burn, but none ignite readily.

Hazardous Combustion Products • Products of combustion include: carbon oxides (CO_x), nitrogen oxides (NO_x).

5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.
 - Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.
 - Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions • No special precautions expected to be necessary if material is used under ordinary conditions and as recommended.

Emergency Procedures • No emergency procedures are expected to be necessary if material is used under ordinary conditions and as recommended.

6.2 Environmental precautions

- No data available

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures • No special precautions or procedures are necessary.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 -

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling • Handle and store under yellow lights to prevent exposure to UV radiation. Use good safety and industrial hygiene practices.

7.2 Conditions for safe storage, including any incompatibilities

Storage • Store in a cool, dry place.

Special Packaging Materials • Package in opaque containers and/or use additional light-blocking materials.

7.3 Specific end use(s)

• Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Control Notations

Germany DFG

•Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (15625-89-5): **Sensitizers:** (skin sensitizer)

8.2 Exposure controls

Engineering Measures/Controls

• Local exhaust is recommended but not required. Provide adequate ventilation as necessary.

Personal Protective Equipment



Pictograms

Respiratory

• Do not breathe vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

• Wear protective eyewear (goggles, face shield, or safety glasses).

Hands

• Wear protective gloves - rubber or neoprene.

Skin/Body

• Wear protective clothing - apron or other impervious body coverings.

General Industrial Hygiene Considerations

• Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls • No data available

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	Film
Color	Green	Odor	Mild
Taste	Not relevant	Odor Threshold	No data available
Physical and Chemical Properties	Not relevant		

General Properties			
Boiling Point	Not relevant	Melting Point	No data available
Decomposition Temperature	Not relevant	pH	Not relevant
Specific Gravity/Relative Density	Not relevant	Density	No data available
Water Solubility	Insoluble	Solvent Solubility	Acetone; Ketones
Viscosity	Not relevant	Explosive Properties	Not relevant
Oxidizing Properties:	Not relevant		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Not relevant
Flammability (solid, gas)	Not relevant		
Environmental			
Half-Life	No data available	Octanol/Water Partition coefficient	No data available
Bioaccumulation Factor	No data available	Bioconcentration Factor	No data available
Biochemical Oxygen Demand BOD/BOD5	No data available	Chemical Oxygen Demand	No data available
Persistence	No data available	Degradation	No data available

9.2 Other Information

- No data available

Section 10: Stability and Reactivity

10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

- UV reactive.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Excess heat. Strong light.

10.5 Incompatible materials

- No data available

10.6 Hazardous decomposition products

- Hazardous decomposition products formed under fire conditions - carbon oxides (COx), nitrogen oxides (NOx).

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Component Name	CAS	Data
Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (15% TO 25%)	15625-89-5	Acute Toxicity: orl-rat LD50:5190 uL/kg; skn-rbt LD50:5170 mg/kg; Irritation: eye-rbt 100 mg MOD; skn-rbt 500 mg/24H MOD
GHS Properties	Classification	
Acute toxicity	EU/CLP• OSHA HCS 2012• UN GHS•	
Aspiration Hazard	EU/CLP• OSHA HCS 2012• UN GHS•	
Carcinogenicity	EU/CLP• OSHA HCS 2012• UN GHS•	
Germ Cell Mutagenicity	EU/CLP• OSHA HCS 2012• UN GHS•	
Skin corrosion/Irritation	EU/CLP•Skin Irritation 2 OSHA HCS 2012•Skin Irritation 2 UN GHS•Skin Irritation 2	
Skin sensitization	EU/CLP•Skin Sensitizer 1 OSHA HCS 2012•Skin Sensitizer 1	
	UN GHS•Skin Sensitizer 1	
STOT-RE	EU/CLP• OSHA HCS 2012• UN GHS•	
STOT-SE	EU/CLP• OSHA HCS 2012• UN GHS•	
Toxicity for Reproduction	EU/CLP• OSHA HCS 2012• UN GHS•	
Respiratory sensitization	EU/CLP• OSHA HCS 2012• UN GHS•	
Serious eye damage/Irritation	EU/CLP•Eye Irritation 2 OSHA HCS 2012•Eye Irritation 2 UN GHS•Eye Irritation 2	

Route(s) of entry/exposure • Skin, Eye

Potential Health Effects

Inhalation

Acute (Immediate)

- May cause irritation.

Chronic (Delayed)

- Repeated and prolonged exposure may cause irritation.

Skin

- Acute (Immediate)** • Causes skin irritation. May cause an allergic skin reaction.
- Chronic (Delayed)** • Repeated and prolonged exposure may cause sensitization.
- Eye**
- Acute (Immediate)** • Causes eye irritation.
- Chronic (Delayed)** • Repeated and prolonged exposure may cause irritation.
- Ingestion**
- Acute (Immediate)** • May cause irritation.
- Chronic (Delayed)** • No specific information available.

Section 12 - Ecological Information

12.1 Toxicity

- No data available

12.2 Persistence and degradability

- No data available

12.3 Bioaccumulative potential

- No data available

12.4 Mobility in Soil

- No data available

12.5 Results of PBT and vPvB assessment

- No data available

12.6 Other adverse effects

Section 13 - Disposal Considerations

13.1 Waste treatment methods

- Product waste** • Dispose of content in accordance with local, regional, national, and/or international regulations.
- Packaging waste** • Dispose of container in accordance with local, regional, national, and/or international regulations.

13.2 Other Information

- Dispose of wastes in an approved waste disposal facility.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	NDA	NDA	NDA	NDA
IMO/IMDG	NDA	NDA	NDA	NDA	NDA

IATA/ICAO	NDA	NDA	NDA	NDA	NDA
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14.6 Special precautions for user

• No special precautions.

14.7 Transport in bulk according to Annex II of and the IBC Code

• Not relevant. **MARPOL 73/78**

14.8 Other information

DOT • Not regulated.

IMO/IMDG • Not regulated. **IATA/ICAO**

• Not regulated.

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Acute

Inventory						
Component	CAS	Australia AICS	Canada DSL	China	EU EINECS	Japan ENCS
Acrylic acid, triester with 2ethyl-2-(hydroxymethyl)-1,3-propanediol	15625-89-5	Yes	Yes	Yes	Yes	Yes
Ethanone, 2,2dimethoxy-1,2diphenyl-	24650-42-8	Yes	Yes	Yes	Yes	Yes
Inventory (Con't.)						
Component	CAS	Korea KECL	New Zealand	Philippines PICCS	TSCA	
Acrylic acid, triester with 2-ethyl-2(hydroxymethyl)-1,3propanediol	15625-89-5	Yes	Yes	Yes	Yes	
Ethanone, 2,2dimethoxy-1,2diphenyl-	24650-42-8	Yes	Yes	Yes	Yes	

Australia

Labor

Australia - List of Designated Hazardous Substances - Classification

•Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 15625-89-5 15% TO 25% Xi R36/38, R43

•Ethanone, 2,2-dimethoxy-1,2-diphenyl-

24650-42-8 0.2% TO 0.4% Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 15625-89-5 15% TO 25% D2B
- Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8 0.2% TO 0.4% Not Listed

Denmark

Environment

Denmark - Advisory List for Self-Classification of Dangerous Substances

- Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 15625-89-5 15% TO 25% Not Listed
- Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8 0.2% TO 0.4% N; R51/53

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

- Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 15625-89-5 15% TO 25% Xi; R36/38 R43
- Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8 0.2% TO 0.4% Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

- Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 15625-89-5 15% TO 25% Xi R:36/38-43 S:(2)-39
- Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8 0.2% TO 0.4% Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

- Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 15625-89-5 15% TO 25% D
- Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8 0.2% TO 0.4% Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

- Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 15625-89-5 15% TO 25% S:(2)-39
- Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8 0.2% TO 0.4% Not Listed

EU - Existing Substance Regulation (793/93/EEC) - Evaluation of Existing HPV Chemicals (REPEALED)

- Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 15625-89-5 15% TO 25%
- Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8 0.2% TO 0.4% Not Listed

Germany

Environment

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

- Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-1,3-propanediol 15625-89-5 15% TO 25% ID Number 1845, hazard class 1 - low hazard to waters

- Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8 0.2% TO 0.4% water s

Japan

Other

Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemical Substances

- Acrylic acid, triester with 2-ethyl-2- 15625-89-5 15% TO 25% Low-decomposable (see also 2-1010); Non-

(hydroxymethyl)-1,3-propanediol decomposable/Low-concentrate (see also 2-1010)
•Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8 0.2% TO 0.4% Not Listed

Japan - Fire Service Law - Hazardous Materials

•Acrylic acid, triester with 2-ethyl-2-(hydroxymethyl)-Group 4 - Flammable liquids III (listed under 3rd Class 15625-89-5 15% TO 25%
1,3-propanediol petroleum - insoluble)
•Ethanone, 2,2-dimethoxy-1,2-diphenyl- 24650-42-8 0.2% TO 0.4% Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H315 - Causes skin irritation
- H317 - May cause an allergic skin reaction
- H319 - Causes serious eye irritation
- P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray. P264 - Wash thoroughly after handling.

- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P321 - Specific treatment, see supplemental first aid information.
- P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 - If eye irritation persists: Get medical advice/attention.
- P362 - Take off contaminated clothing and wash before reuse.
- P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- R36/38 - Irritating to eyes and skin.
- R43 - May cause sensitization by skin contact.
- S24 - Avoid contact with skin.
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S37 - Wear suitable gloves.
- S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Rapid Mask Safety Data Sheet Page

Classification method for mixtures • Calculation method.

Last Revision Date • 08 November 2006

Preparation Date • 22 April 2013

Other Information • Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.

Disclaimer/Statement of Liability • The information contained herein is based on data available to us and is believed to be correct. Since this information may have been obtained in part from independent laboratories or other sources not under direct supervision, no representation is made that the information is accurate, reliable, complete, or representative and Buyer may rely thereon only at the Buyer's risk. We make no guarantee that the health and safety precautions we have suggested will be adequate for all individuals and / or situations involving its handling and uses. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof.

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Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.
