

SAFETY DATA SHEET

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

1.1. Product identifier	
Trade name or designation of the mixture	M8534
Registration number	-
Synonyms	None.
Issue date	25-November-2015
Version number	05
Revision date	17-August-2021
Supersedes date	05-June-2020
1.2. Relevant identified uses of t	he substance or mixture and uses advised against
Identified uses	This product is an article. Water Soluble Film Polyvinyl alcohol-based film used as a water-soluble unit-dose delivery system.
Uses advised against	None known.
1.3. Details of the supplier of the	e safety data sheet
Company name	MonoSol LLC
Address	707 East 80th Place, Suite 301
	Merrillville, IN 46410
Country	United States
General Assistance Phone	+1 219-762-3165
Fax	+1 219-763-4477
E-mail	reach@monosol.com
E-mail Website	www.MonoSol.com
Website	www.iviolio30i.com
1.4. Emergency Phone	
Numbers	
CHEMTREC (London)	+(44)-870-8200418 & 1 703-527-3887
CHEMTREC Sweden	+(46)-85203403
(Stockholm)	
CHEMTREC Germany	+(44)-870-8200418
CHEMTREC Hungary	+(36)-18088425
(Budapest) CHEMTREC France	+ (33)-975181407
CHEMTREC Poland	+(48)-223988029
(Warsaw)	
CHEMTREC Netherlands	+(31)-858880596
CHEMTREC Spain	900-868538
CHEMTREC Italy	800-789-767

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies. According to REACH Regulation (EC) No 1907/2006, the product is considered as an article. The creation of a safety data sheet in accordance with Article 31 of the Regulation (EC) No 1907/2006 is not legally required for articles. This product is an article in accordance with CLP Regulation (EC) 1272/2008. This safety data sheet (SDS) is provided on a voluntary basis for informational purposes only.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended. In accordance with REACH Regulation (EC) No 1907/2006 and with CLP Regulation (EC) No 1272/2008 the product is considered as an article. The creation of a safety data sheet in accordance with Article 31 of the Regulation (EC) No 1907/2006 is not legally required for articles. This safety data sheet (SDS) is provided on the voluntary basis for information purpose only. Labeling of the product in accordance with Title III of the Regulation (EC) No 1272/2008 is not legally required for articles.

Hazard summary	Not classified for health hazards. However, occupational exposure to the mixture or substance(s) may cause adverse health effects.		
2.2. Label elements			
Label according to Regulation (E	EC) No. 1272/2008 as amended		
Contains:	Propylidynetrimethanol		
Hazard pictograms	None.		
Signal word	None.		
Hazard statements	The mixture does not meet the criteria for classification.		
Precautionary statements			
Prevention	Observe good industrial hygiene practices.		
Response	Wash hands after handling.		
Storage	Store away from incompatible materials.		
Disposal	Dispose of waste and residues in accordance with local authority requirements.		
Supplemental label information	81,33 % of the mixture consists of component(s) of unknown acute oral toxicity. 90,52 % of the mixture consists of component(s) of unknown acute dermal toxicity.		
2.3. Other hazards	Not a PBT or vPvB substance or mixture.		
SECTION 3: Composition/i	information on ingredients		
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3.2. Mixtures			
General information Chemical name	% CAS-No. / EC No. REACH Registration No. Index No. Notes		
Propylidynetrimethanol	3 - < 5 77-99-6		
	201-074-9		
	pr. 2;H361, Repr. 2;H361fd		
Other components below repo levels	rtable 90 - 100		
M: M-factor PBT: persistent, bioaccumulati vPvB: very persistent and very All concentrations are in perce			
Composition comments	This product contains substances that present a hazard within the meaning of the Regulation (EC) No 1272/2008 (CLP). The full text for all H-statements is displayed in section 16.		
SECTION 4: First aid meas	sures		
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.		
4.1. Description of first aid meas	ures		
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.		
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.		
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. Get medical attention if symptoms occur.		
4.2. Most important symptoms and effects, both acute and delayed	Exposure may cause temporary irritation, redness, or discomfort.		
4.3. Indication of any immediate medical attention and special treatment needed	Treat symptomatically.		
SECTION 5: Firefighting m	easures		
General fire hazards	No unusual fire or explosion hazards noted.		
5.1. Extinguishing media Suitable extinguishing	Water spray. Alcohol resistant foam. Dry powder. Carbon dioxide (CO2).		
media Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.		

5.2. Special hazards arising from the substance or mixture Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

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media

5.3. Advice for firefighters Special protective equipment for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Special fire fighting procedures	Use water spray to cool unopened containers.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	Keep unnecessary personnel away. In case of spills, beware of slippery floors and surfaces. For personal protection, see section 8 of the SDS.	
For emergency responders	Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.	
6.2. Environmental precautions	Avoid discharge into drains, water courses or onto the ground.	
6.3. Methods and material for containment and cleaning up	Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.	
6.4. Reference to other sections	For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.	
SECTION 7: Handling and storage		

7.1. Precautions for safe handling Avoid prolonged exposure. Avoid dust formation. Wear personal protective equipment/face protection. Provide exhaust ventilation at places where dust is formed. Use good general housekeeping procedures. Eating, drinking and smoking should be prohibited in areas where this material is stored, handled, and processed. Wash hands after use. Do not get in eyes, on skin or on clothing. Do not breathe vapors or mists. 7.2. Conditions for safe storage, including any incompatibilities

7.3. Specific end use(s) These precautions are for room temperature handling. Other uses including elevated temperatures or aerosol/spray applications may require added precaution.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Components	Туре	Value	
Propylidynetrimethanol (CAS 77-99-6)	TWA	50 mg/m3	
Lithuania. OELs. Limit Va	lues for Chemical Substances, Gener	al Requirements	
Components	Туре	Value	
Propylidynetrimethanol (CAS 77-99-6)	Ceiling	5 ppm	
Sweden. OELs. Work Env	ironment Authority (AV), Occupationa	I Exposure Limit Values (AFS 2015:7)	
Components	Туре	Value	
Propylidynetrimethanol (CAS 77-99-6)	TWA	5 mg/m3	
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Recommended monitoring procedures	Follow standard monitoring procedures.		
Derived no effect levels DNELs)	Not available.		
Predicted no effect concentrations (PNECs)	Not available.		
3.2. Exposure controls			
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.		

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Individual protection measures, such as personal protective equipment

General information	Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.	
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin protection	Wear appropriate chamical register t deves	
- Hand protection	Wear appropriate chemical resistant gloves.	
- Other	Wear suitable protective clothing.	
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
Hygiene measures	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	
Environmental exposure controls	Environmental manager must be informed of all major releases.	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Appearance	
Physical state	Solid.
Form	Film.
Colour	Colourless to light yellow. Translucent.
Odour	May have a slight acetic acid odor
Odour threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
9.2. Other information	No relevant additional information available.
SECTION 10: Stability and	reactivity
10.1 Boostivity	The product is stable and non-reactive under normal conditions of use, storage and transport

10.5. Incompatible materials	Strong oxidising agents.
10.4. Conditions to avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials.
10.3. Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.2. Chemical stability	Material is stable under normal conditions.
10.1. Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.

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SECTION 11: Toxicological information

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General information	Occupational exposure to the substance or mixture may cause adverse effects.		
Information on likely routes of e	xposure		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	No adverse effects due to skin contact are expected.		
Eye contact	Direct contact with eyes may cause temporary irritation.		
Ingestion	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.		
Symptoms	Exposure may cause temporary irritation, redness, or discomfort.		
11.1. Information on toxicologic	al effects		
Acute toxicity	Not known.		
Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible.		
Serious eye damage/eye irritation	Due to partial or complete lack of data the classification is not possible.		
Respiratory sensitisation	Due to partial or complete lack of data the classification is not possible.		
Skin sensitisation	Due to partial or complete lack of data the classification is not possible.		
Germ cell mutagenicity	Due to partial or complete lack of data the classification is not possible.		
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.		
Hungary. 26/2000 EüM Ordin (as amended)	nance on protection against and preventing risk relating to exposure to carcinogens at work		
Not listed.			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.		
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.		
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.		
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.		
Mixture versus substance information	No information available.		
Other information	Not available.		
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SECTION 12: Ecological information

12.1. Toxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. This product is an article and is not expected to release hazardous chemicals under normal conditions of use.

Components		Species	Test Results	
Propylidynetrimethanol (CAS 77-	99-6)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	10330 - 16360 mg/l, 48 hours	
Fish	LC50	Bleak (Alburnus alburnus)	> 10000 mg/l, 96 hours	
12.2. Persistence and degradability	No data is	No data is available on the degradability of any ingredients in the mixture.		
12.3. Bioaccumulative potentia	I			
Partition coefficient n-octanol/water (log Kow)	Not availa	able.		
Bioconcentration factor (BCF)	Not availa	Not available.		
12.4. Mobility in soil	No data a	No data available.		
12.5. Results of PBT and vPvB assessment	Not a PB	Γ or vPvB substance or mixture. Not avail	able.	
12.6. Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
EU waste code	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Disposal methods/information	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Special precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. - 14.6.: Not regulated as dangerous goods.

RID

14.1. - 14.6.: Not regulated as dangerous goods.

ADN

14.1. - 14.6.: Not regulated as dangerous goods.

ΙΑΤΑ

14.1. - 14.6.: Not regulated as dangerous goods.

IMDG

14.1. - 14.6.: Not regulated as dangerous goods.

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

SECTION 15: Regulatory information

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

Not applicable.

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Other regulations	This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended. According to REACH Regulation 1907/2006 EC, the product is considered as an article. The preparation of a safety data sheet in accordance with Article 31 of the Regulation (EC) No.1907/2006 is not legally required for articles. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.
National regulations	Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC.
15.2. Chemical safety assessment	No Chemical Safety Assessment has been carried out.
SECTION 16: Other info	rmation
List of abbreviations	Not available.
References	Not available.
Information on evaluation method leading to the classification of mixture	The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.
Full text of any H-statements not written out in full under Sections 2 to 15	H361 Suspected of damaging fertility or the unborn child.
	H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.
Training information	Follow training instructions when handling this material.
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.

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