

MED1-1356

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Revision date:
09/10/2015

Date of issue:
26/11/2013

Version: 2.0

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

1.1. Product Identifier

Product form : Mixture
Product Name : MED1-1356
Synonyms : Pressure Sensitive Adhesive

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

1.2.1. Relevant identified uses

Use of the substance/mixture : For professional use only.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

NuSil Technology LLC
1050 Cindy Lane
Carpinteria, California 93013
USA
(805) 684-8780
ehs@nusil.com
www.nusil.com

1.4. Emergency Telephone Number

Emergency Number : 800-424-9300 CHEMTREC (in US); (703) 527-3887 CHEMTREC (outside US)

SECTION 2: Hazards identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225
Eye Irrit. 2 H319
STOT SE 3 H336

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label Elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (CLP) :

P210 - Keep away from heat, hot surfaces, open flames, sparks. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical, lighting, ventilating equipment.
P261 - Avoid breathing vapours, mist, fume, spray.

MED1-1356

Safety Data Sheet

according to Regulation (EC) No. 453/2010

P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear eye protection, protective clothing, protective gloves.
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove exposed to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a POISON CENTER/doctor/physician if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P370+P378 - In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂) for extinction.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container according to local, regional, national, and international regulations.

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking

EUH-statements

2.3. Other Hazards

Other hazards not contributing to the classification

: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethyl acetate	(CAS No) 141-78-6 (EC no) 205-500-4 (EC index no) 607-022-00-5	50 - 60	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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

SECTION 4: First aid measures

4.1. Description of First Aid Measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-aid measures after skin contact : Remove contaminated clothing. Gently wash with plenty of soap and water. Obtain medical attention if irritation develops or persists.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

MED1-1356

Safety Data Sheet

according to Regulation (EC) No. 453/2010

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

- Symptoms/injuries after inhalation : May cause drowsiness or dizziness. Causes serious eye irritation.
- Symptoms/injuries after skin contact : May cause skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- Symptoms/injuries after ingestion : Ingestion is likely to be harmful or have adverse effects.
- Chronic symptoms : Repeated or prolonged skin contact may cause dermatitis and defatting.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing Media

- Suitable extinguishing media : Dry chemical powder, alcohol foam, carbon dioxide, water spray, fog.
- Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire. Application of water stream to hot product may cause frothing and increase fire intensity.

5.2. Special Hazards Arising From the Substance or Mixture

- Fire hazard : Highly flammable liquid and vapour. Flammable vapours can accumulate in head space of closed systems. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
- Explosion hazard : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.
- Reactivity : Hazardous reactions will not occur under normal conditions.

5.3. Advice for firefighters

- Precautionary measures fire : Exercise caution when fighting any chemical fire.
- Firefighting instructions : Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to enter drains or water courses.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.
- Other information : Refer to Section 9 for flammability properties.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Keep away from heat/sparks/open flames/hot surfaces. No smoking. Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No smoking. Do not get in eyes, on skin, or on clothing. Do not breathe vapour or mist.

6.1.1. For non-emergency personnel

- Protective equipment : Use appropriate personal protection equipment (PPE).
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

MED1-1356

Safety Data Sheet

according to Regulation (EC) No. 453/2010

6.3. Methods and material for containment and cleaning up

- For containment : Absorb and/or contain spill with inert material, then place in suitable container. Do not take up in combustible material such as: saw dust or cellulosic material.
- Methods for cleaning up : Clear up spills immediately and dispose of waste safely. Use only non-sparking tools.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Hot organic chemical vapours or mists are susceptible to spontaneous combustion when mixed with air, ignition may occur below auto ignition temperature. Ignition temperatures will decrease with increasing vapour volumes, vapour air contact time, and pressure changes. Ignition may occur at elevated-temperature process conditions, especially under a vacuum.
- Precautions for safe handling : Handle empty containers with care because residual vapours are flammable.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating, lighting and equipment.
- Storage conditions : Keep in fireproof place. Store in a dry, cool and well-ventilated place. Keep container tightly closed.
- Incompatible products : Sources of ignition. Direct sunlight. Heat sources.
- Incompatible materials : Strong acids, strong bases, strong oxidizers.

7.3. Specific end use(s)

For professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethyl acetate (141-78-6)		
Austria	MAK (mg/m ³)	1050 mg/m ³
Austria	MAK (ppm)	300 ppm
Austria	MAK Short time value (mg/m ³)	2100 mg/m ³
Austria	MAK Short time value (ppm)	600 ppm
Belgium	Limit value (mg/m ³)	1461 mg/m ³
Belgium	Limit value (ppm)	400 ppm
Bulgaria	OEL TWA (mg/m ³)	800.0 mg/m ³
France	VME (mg/m ³)	1400 mg/m ³
France	VME (ppm)	400 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	1500 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)

MED1-1356

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Ethyl acetate (141-78-6)		
Germany	TRGS 900 Occupational exposure limit value (ppm)	400 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	400 ppm
Latvia	OEL TWA (mg/m ³)	200 mg/m ³
Spain	VLA-ED (mg/m ³)	1460 mg/m ³
Spain	VLA-ED (ppm)	400 ppm
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (ppm)	400 ppm
Czech Republic	Expoziční limity (PEL) (mg/m ³)	700 mg/m ³
Denmark	Grænseværdie (langvarig) (mg/m ³)	540 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Finland	HTP-arvo (8h) (mg/m ³)	1100 mg/m ³
Finland	HTP-arvo (8h) (ppm)	300 ppm
Finland	HTP-arvo (15 min)	1800 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	500 ppm
Hungary	AK-érték	1400 mg/m ³
Hungary	CK-érték	1400 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (ppm)	400 ppm
Lithuania	IPRV (mg/m ³)	500 mg/m ³
Lithuania	IPRV (ppm)	150 ppm
Lithuania	NRV (mg/m ³)	1100 mg/m ³
Lithuania	NRV (ppm)	300 ppm
Poland	NDS (mg/m ³)	200 mg/m ³
Poland	NDSCh (mg/m ³)	600 mg/m ³
Romania	OEL TWA (mg/m ³)	400 mg/m ³
Romania	OEL TWA (ppm)	111 ppm
Romania	OEL STEL (mg/m ³)	500 mg/m ³
Romania	OEL STEL (ppm)	139 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	1500 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	400 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	1100 mg/m ³
Sweden	nivågränsvärde (NVG) (mg/m ³)	500 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	1100 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	300 ppm
Portugal	OEL TWA (ppm)	400 ppm

8.2. Exposure controls

Appropriate engineering controls : Gas detectors should be used when flammable gases/vapours may be released. Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

MED1-1356

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Personal protective equipment	: Avoid all unnecessary exposure. Gloves. Safety glasses. Protective clothing. Insufficient ventilation: wear respiratory protection.
	
Materials for protective clothing	: Wear fire/flame resistant/retardant clothing.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable protective clothing. Wash contaminated clothing before reuse.
Respiratory protection	: Use approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
Other information	: When using, do not eat, drink or smoke.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Translucent Yellow
Odour	: Characteristic
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 204.4 (>400 °F)
Flash point	: -4.4 °C (24 °F)
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative Density	: 1.05 (water = 1)
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content : 50 - 60 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

10.2. Chemical stability

Highly flammable liquid and vapour. Stable at standard temperature and pressure.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

MED1-1356

Safety Data Sheet

according to Regulation (EC) No. 453/2010

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Sparks, heat, open flame and other sources of ignition. Incompatible materials.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous decomposition products

Silicon oxides. Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Ethyl acetate (141-78-6)	
LD50 oral rat	5620 mg/kg
LD50 dermal rabbit	> 20 ml/kg

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ethyl acetate (141-78-6)	
LC50 fishes 1	220 - 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
LC50 fish 2	484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])

12.2. Persistence and degradability

MED1-1356	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

MED1-1356	
Bioaccumulative potential	Not established.

Ethyl acetate (141-78-6)	
BCF fish 1	30
Log Pow	0.6

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

MED1-1356

Safety Data Sheet

according to Regulation (EC) No. 453/2010

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Waste disposal recommendations : Dispose of waste material in accordance with all local, regional, national, and international regulations.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No : 1173

14.2. UN proper shipping name

Proper Shipping Name : ETHYL ACETATE SOLUTION
Transport document description : UN 1173 ETHYL ACETATE (SOLUTION), 3, II, (D/E)

14.3. Transport hazard class(es)

Class (UN) : 3
Hazard labels (UN) : 3



14.4. Packing group

Packing group (UN) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number : 33
(Kemler No.)
Classification code (UN) : F1
Orange plates :



Transport category (ADR) : 2
Tunnel restriction code : D/E
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E2
EAC code : •3YE

14.6.2. Transport by Sea

MFAG-No : 129

14.6.3. Air Transport

No additional information available

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH candidate substance

MED1-1356

Safety Data Sheet

according to Regulation (EC) No. 453/2010

VOC content : 50 - 60 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Section	Section Header	Change	Date Changed
1.3	Details of the supplier of the safety data sheet	Modified	09/10/2015
2	Hazards identification	Removed DSD/DPD information.	09/10/2015
3	Composition/information on ingredients	Removed not classified components. Removed DSD/DPD information.	09/10/2015
15.1.1	EU-Regulations	Modified	09/10/2015

Revision date : 09/10/2015

Data sources : According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

Full text of R-, H- and EUH-phrases:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness
EUH066	Repeated exposure may cause skin dryness or cracking

SDS EU (REACH Annex II) 11pt

We believe that the information contained herein is current as of the date of this Safety Data Sheet, and is offered in good faith. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of NuSil Technology, it is the user's obligation to determine the conditions of safe use of the product.



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