

SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 453/2010)

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

1.1. Product identifier

Product name : RESINE KM-EX LIQUIDE Product code : 04171.

Product code : 041/1.

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

1.3. Details of the supplier of the safety data sheet

Registered company name : PRESI S.A.

Address : 1665 Route Napoléon - Tavernolles.38320.BRIE ET ANGONNES.France. Telephone : +33 (0)4.76.72.00.21. Fax : +33 (0)4.76.72.05.84.

presi@presi.com

www.presi.com

1.4. Emergency telephone number : +33 (0)1.45.42.59.59.

Association/Organisation : INRS / ORFILA http://www.centres-antipoison.net.

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Flammable liquid, Category 2 (Flam. Liq. 2, H225).

Acute inhalation toxicity, Category 4 (Acute Tox. 4, H332).

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Skin sensitisation, Category 1 (Skin Sens. 1, H317).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H335).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Highly flammable (F, R 11).

Acute inhalation toxicity: harmful (Xn, R 20).

Skin irritation (Xi, R 38).

Eye irritation (Xi, R 36).

Irritant for the respiratory tract (Xi, R 37).

Skin sensitisation (Xi, R 43).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

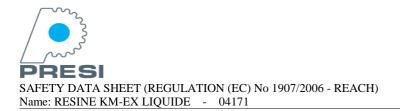
In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



DANGER Product identifiers : 607-035-00-6 METI 601-026-00-0 STYR

METHYL METHACRYLATE STYRENE



Hazard statements :	
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
Precautionary statements - Preven	ntion :
P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting//equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statements - Respon	nse :
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
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 victim 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 or doctor/physician if you feel unwell.
P321	Specific treatment (see on this label).
P332 + P313	If skin irritation occurs: Get medical advice/attention.
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.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use for extinction.
Precautionary statements - Storag	e :
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.
Precautionary statements - Dispos	sal :
P501	Dispose of contents/container to

In compliance with directives 67/548/EEC, 1999/45/EC and their amendments.

Hazard symbols :



Contains : 601-026-00-0 607-035-00-6 Risk phrase : R 43 R 36/37/38



STYRENE METHYL METHACRYLATE

> May cause sensitisation by skin contact. Irritating to eyes, respiratory system and skin.



R 20	Harmful by inhalation.
R 11	Highly flammable.
Safety phrase :	
S 24	Avoid contact with skin.
S 37	Wear suitable gloves.
S 16	Keep away from sources of ignition - No smoking.
S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 60	This material and its container must be disposed of as hazardous waste.
S 9	Keep container in a well-ventilated place.
S 23	Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
2.3. Other hazards	

No data available.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

No substances fulfil the criteria set forth in annexe II section A of the REACH regulation (EC) n° 1907/2006.

3.2. Mixtures

Composition :

Composition .		-	
Identification	Name	Classification	%
INDEX: 607-035-00-6	METHYL METHACRYLATE	GHS02, GHS07, Dgr	25 <= x % < 50
CAS: 80-62-6		Xi,F	
EC: 201-297-1		H:225-335-315-317	
		R: 11-37/38-43	
INDEX: 601-026-00-0	STYRENE	GHS02, GHS07, Wng	25 <= x % < 50
CAS: 100-42-5		Xn	
EC: 202-851-5		H:226-332-319-315	
		R: 10-20-36/38	

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

4.1. Description of first aid measures

In the event of exposure by inhalation :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

Do not proceed with mouth-to-mouth or mouth-to-nose resuscitation.

If symptoms persist, call a physician

In the event of splashes or contact with eyes :

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

In the event of an allergic reaction, seek medical attention.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor. Seek medical attention immediately, showing the label.



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

No data available.

SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

Suitable methods of extinction

Prevent the effluent of fire-fighting measures from entering drains or waterways.

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)

- carbon dioxide (CO2)

See Section(s) 10

5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non fire-fighters

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

For fire-fighters

Fire-fighters will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled. Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using. Safe handling advice

Avoid contact with skin and eyes



Fire prevention :

Handle in well-ventilated areas.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Prevent the accumulation of electrostatic charges with connections to earth.

The mixture can become electrostatically charged : always earth during decanting operations. Wear antistatic shoes and clothing and floors should be electrically conductive.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid inhaling vapors.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Avoid skin and eye contact with this mixture.

Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and animals feeding stuffs

Stock between 15°C and 25°C

Keep only in the original container

Do not smoke

Storage

Keep the container tightly closed in a dry, well-ventilated place

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight

Avoid accumulation of electrostatic charges.

Packaging

Always keep in packaging made of an identical material to the original.

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- European Union (2009/161/EU, 2006/15/EC, 2000/39/EC, 98/24/EC)							
CAS	VME-mg/m3	: VME-ppm :	VLE-mg/m3:	VLE-ppm :	Notes :		
80-62-6	-	50	-	100	-		
- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :							
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :		
80-62-6	50 ppm	100 ppm	-	-	-		
100-42-5	20 ppm	40 ppm	-	-	-		
- Germany - AGW (BAuA - TRGS 900, 21/06/2010) :							
CAS	VME :	VME :	Excess	Notes			
80-62-6	50 ml/m3	210 mg/m3	2(I)	DFG, Y			
100-42-5	20 ml/m3	86 mg/m3	2(II)	DFG, Y			

- France (INRS - El	D984 :2008) :					
CAS	VME-ppm :	VME-mg/m3	: VLE-ppm :	VLE-mg/m3:	Notes :	TMP No :
80-62-6	100	410	200	820	-	82
100-42-5	50	215	-	-	-	84
- USA / NIOSH ID	LH (National Instit	tute for Occupati	ional Safety and	Health, Immedia	ately Dangerou	is to Life or Health Concentrations) :
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
80-62-6	-	-	1000 ppm	-	-	
100-42-5	-	-	700 ppm	-	-	
- UK / WEL (Workplace exposure limits, EH40/2005, 2007) :						
CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :	
80-62-6	50 ppm	100 ppm	-	-	-	
100-42-5	100 ppm	250 ppm	-	-	-	

8.2. Exposure controls

Suitable technical inspections

Avoid contact with skin, eyes and clothing

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Recommended properties :

- Impervious gloves in accordance with standard EN374

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

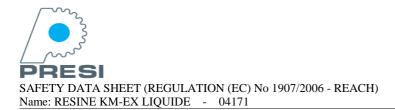
In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

To envisage normal working clothes



- Respiratory protection					
Avoid breathing vapours.					
If the ventilation is insufficient, wear appropriate breathing apparatus.					
When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.					
Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :					
- A1 (Brown)					
SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIN	ES				
9.1. Information on basic physical and chemical propertie	S				
General information :					
Physical state :	viscous liquid.				
Important health, safety and environmental information					
pH :	Not relevant.				
Boiling point/boiling range :	> 35°C				
Flash Point Interval :	$PE < 23^{\circ}C$				
Explosive properties, lower explosivity limit (%):	1.2 % en vol.				
Explosive properties, upper explosivity limit (%):	12.5 % en vol.				
Vapour pressure :	not relevant.				
Density :	>1				
Water solubility :	Insoluble.				
Viscosity :	65 mPa.s				
Viscosity:	v < 7 mm2/s (40°C)				
Melting point/melting range :	not specified.				

This mixture is stable under the recommended handling and storage conditions in section 7. **10.3. Possibility of hazardous reactions**

0.5. Possibility of hazardous react

No data available.

10.4. Conditions to avoid

Self-ignition temperature :

9.2. Other information No data available.

% VOC :

10.1. ReactivityNo data available.10.2. Chemical stability

Decomposition point/decomposition range :

SECTION 10 : STABILITY AND REACTIVITY

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

not specified.

not specified.

30%

Avoid :

- accumulation of electrostatic charges.

- heating
- heat

- flames and hot surfaces

Do not heat the open flame, fumes or expose to flame or any source of ignition

10.5. Incompatible materials

Incompatible with oxidising agents Strong acids and bases

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)

- carbon dioxide (CO2)

Methacrylate of methyl, carbon monoxide, styrene

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Harmful by inhalation.

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

Respiratory tract irritation may occur, together with symptoms such as coughing, choking and breathing difficulties.

May cause an allergic reaction by skin contact.

11.1.1. Substances

No toxicological data available for the substances.

Skin corrosion/skin irritation :

Irritating to skin

Serious damage to eyes/eye irritation :

Irritating to eyes

11.1.2. Mixture

Respiratory or skin sensitisation :

Inhalation of vapours may cause irritation of the respiratory system in very susceptible persons

SECTION 12 : ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

No aquatic toxicity data available for the substances.

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

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

No data available.

SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.



Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging :

Empty container completely. Keep label(s) on container. Give to a certified disposal contractor.

SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2011 - IMDG 2010 - ICAO/IATA 2012).

14.1. UN number

1866

14.2. UN proper shipping name

UN1866=RESIN SOLUTION, flammable

14.3. Transport hazard class(es)





14.4. Packing group

Π

14.5. Environmental hazards

14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	3	F1	II	3	33	5 L	640C	E2	2	D/E
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ			
	3	-	II	5 L	F-E,S-E	-	E2			
IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ	
	3	-	II	353	5 L	364	60 L	A3	E2	
	3	-	II	Y341	1 L	-	-	A3	E2	

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code $% \mathcal{A} = \mathcal{A} = \mathcal{A} = \mathcal{A} = \mathcal{A} = \mathcal{A}$

No data available.

SECTION 15 : REGULATORY INFORMATION

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

- Particular provisions :

No data available.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

Title for H, EUH and R indications mentioned in section 3 :

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
R 10	Flammable.
R 11	Highly flammable.
R 20	Harmful by inhalation.
R 36/38	Irritating to eyes and skin.
R 37/38	Irritating to respiratory system and skin.
R 43	May cause sensitisation by skin contact.

Abbreviations :

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefahrdungsklasse (Water Hazard Class).

GHS02 : Flame

GHS07 : Exclamation mark