Safety Data Sheet RESFOAM HL 35

Safety Data Sheet dated: 06/16/2021 - version 6

Date of first edition: 10/09/2015



1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: RESFOAM HL 35

Trade code: 9024456

Recommended use of the chemical and restrictions on use

Recommended use: Polyurethanic coating

Restrictions on use: N.A.

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Company: MAPEI CORP. (USA and Puerto Rico)

1144 East Newport Center Drive - 33442 - Deerfield Beach - FL - USA

Responsable: RDProductSafety@mapei.com

Emergency 24 hour numbers:

Emergency Number (USA/Canada) CHEMTREC 1(800) 424-9300 / 1(703) 527-3887

Emergency Transport CANUTEC (Canada) 1-613-996-6666

2. HAZARD(S) IDENTIFICATION





Classification of the chemical

Acute Tox. 4 Harmful if inhaled.

Skin Irrit. 2 Causes skin irritation.

Eye Irrit. 2A Causes serious eye irritation.

Resp. Sens. 1 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 May cause an allergic skin reaction.

Carc. 2 Suspected of causing cancer if inhaled, in contact with skin and if swallowed.

STOT RE 2 May cause damage to organs through prolonged or repeated exposure if inhaled.

Label elements

Hazard pictograms and Signal Word



Danger

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H351 Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
 H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe vapours.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P284	[In case of inadequate ventilation] wear respiratory protection.			
P302+P352	IF ON SKIN: Wash with plenty of water.			
P304+P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.			
P305+P351+P33 8	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.			
P308+P313	IF exposed or concerned: Get medical advice/attention.			
P312	Call a POISON CENTER if you feel unwell.			
P314	Get medical advice/attention if you feel unwell.			
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.			
P337+P313	If eye irritation persists: Get medical advice/attention.			
P342+P311	If experiencing respiratory symptoms: Call a POISON CENTER.			
P363	Wash contaminated clothing before reuse.			
P405	Store locked up.			
P501	Dispose of contents/container in accordance with applicable regulations.			
Ingredient(s) with unknown acute toxicity:				

None

Hazards not otherwise classified identified during the classification process:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

List of components

Qty	Name	Ident. Numb.	Classification
2.5-5 %		CAS:9016-87-9	Acute Tox. 4, H332; STOT SE 3, H335; Skin Irrit. 2, H315; STOT RE 2, H373; Eye Irrit. 2A, H319; Resp. Sens. 1, H334; Skin Sens. 1, H317
1-2.5 %		CAS:101-68-8	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335; STOT RE 2, H373; Carc. 2, H351; Resp. Sens. 1, H334; Skin Sens. 1, H317
1-2.5 %	toluene diisocyanate; 1,3- Diisocyanatomethylbenzene	CAS:26471-62-5	Acute Tox. 2, H330; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Resp. Sens. 1, H334; Skin Sens. 1, H317; Carc. 2, H351; STOT SE 3, H335; Aquatic Chronic 3, H412

4. FIRST AID MEASURES

Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Obtain medical attention if skin related symptoms persist.

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

Most important symptoms/effects, acute and delayed

01/21/2025 Print date Production Name RESFOAM HL 35 Page n. 2 of 9 Eye irritation

Eye damages

Skin Irritation

Ervthema

Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the chemical

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: N.A.

Explosive properties: N.A. Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Limit leakages with earth or sand.

Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Retain contaminated washing water and dispose it.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Do not use on extensive surface areas in premises where there are occupants.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Storage temperature: N.A.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Notes
	MAK ACGIH	GERMANY		0,05	0,005				respiratory under Met isocyanate
	OSHA MAK	GERMANY	С	0,05		0,2	0,02		
	ACGIH				0,005				respiratory under Met isocyanate
	MAK	AUSTRIA		0,05	0,005	0,1	0,01		
toluene diisocyai Diisocyanatomet ne	nate; 1,3- ACGIH hylbenze				0,001	,	0,005		A3 - Confi with Unkn Humans;S significant exposure I route;derr respiratory irritation;
	ACGIH				0,001		0,005		A3 - Confi with Unkn Humans;S significant exposure I route;asth pulmonary sensitizer;
	MAK	AUSTRIA		0,035	0,005	0,14	0,02		
Biological limit	values								
Component	CAS-No.	Value Uol	м	Medium	Biological	Indicator	Sampling Po	eriod	

Component	CAS-No.	Value	UoM	Medium	Biological Indicator	Sampling Period
toluene diisocyanate; 1, 3- Diisocyanatomet	26471-62-5	5	MICROGGCREAT	Urine	Toluenediamine isomers with hydrolysis	End of turn

Appropriate engineering controls: N.A.

Individual protection measures

Eye protection:

hylbenzene

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; 29 CFR 1910.138 - ANSI/ISEA 105:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Use impervious gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to 29 CFR 1910.134 - CSA Z94.4 for information on selection and use of appropriate respiratory protection equipment.

Use adequate protective respiratory equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid

Appearance and colour: liquid Amber

Odour: Characteristic

Odour threshold: No data available

pH: No data available

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Melting point / freezing point: No data available

Initial boiling point and boiling range: No data available

Flash point: 100 °C (212 °F) Evaporation rate: No data available

Upper/lower flammability or explosive limits: No data available

Vapour density: No data available Vapour pressure: No data available Relative density: 1.10 g/cm3 Solubility in water: reacts

Solubility in oil: No data available

Partition coefficient (n-octanol/water): No data available

Auto-ignition temperature: No data available Decomposition temperature: No data available

Viscosity: 0.88 PA-s

Explosive properties: No data available Oxidizing properties: No data available Solid/gas flammability: No data available

Other information

Substance Groups relevant properties No data available

Miscibility: No data available Fat Solubility: No data available Conductivity: No data available

10. STABILITY AND REACTIVITY

Reactivity

Stable under normal conditions

Chemical stability

Data not available.

Possibility of hazardous reactions

None.

Conditions to avoid

Stable under normal conditions.

Incompatible materials

None in particular.

Hazardous decomposition products

None.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Toxicological Information of the Preparation

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

a) acute toxicity LC50 Inhalation Rat = 490 mg/m3 4h

LD50 Skin Rabbit > 9,4 g/kgLD50 Oral Rat = 49 g/kg

a) acute toxicity LC50 Inhalation Rat = 369 mg/m3 4h

LD50 Oral Rat = 31600 mg/kg

toluene diisocyanate; 1,3- a) acute toxicity

Diisocyanatomethylbenze

ne

LD50 Skin Rabbit = 10000 mg/kg

LD50 Oral Rat = 3060 mg/kg

LC50 Inhalation Rat = 0,099 mg/l 4h

If not differently specified, the information required in the regulation and listed below must be considered as N.A.

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- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure

Toxicological kinetics, metabolism and distribution information

- i) STOT-repeated exposure
- j) aspiration hazard

Substance(s) listed on the IARC Monographs:

Group 3

Group 3

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene Group 2B

Substance(s) listed as OSHA Carcinogen(s):

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

Substance(s) listed as NIOSH Carcinogen(s):

None

Substance(s) listed on the NTP report on Carcinogens:

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

12. ECOLOGICAL INFORMATION

Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the components

Component Ident. Numb. **Ecotox Data**

toluene diisocyanate; 1,3-

Diisocyanatomethylbenzene

CAS: 26471-62- d) Terrestrial toxicity: LC50 Worm Eisenia foetida > 1000 mg/kg 14d IUCLID

d) Terrestrial toxicity: NOEC Worm Eisenia foetida >= 1000 mg/kg 14d IÚCLID

Persistence and degradability

N.A.

Bioaccumulative potential

NΑ

Mobility in soil

NΔ

Other adverse effects

N.A.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Disposal considerations:

Do not allow to enter drains or watercourses.

Print date 01/21/2025 Production Name **RESFOAM HL 35** Page n. 6 of 9 Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

UN number

ADR-UN number: N.A. DOT-UN Number: N.A. IATA-Un number: N.A. IMDG-Un number: N.A.

UN proper shipping name

ADR-Shipping Name: N.A. DOT-Proper Shipping Name: N.A. IATA-Technical name: N.A. IMDG-Technical name: N.A.

Transport hazard class(es)

ADR-Class: N.A. DOT-Hazard Class: N.A. IATA-Class: N.A. IMDG-Class: N.A.

Packing group

ADR-Packing Group: N.A. DOT Packing Group: N.A. IATA-Packing group: N.A. IMDG-Packing group: N.A.

Environmental hazards

Marine pollutant: No

Environmental Pollutant: N.A.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

Special precautions

Department of Transportation (DOT):

N.A.

Road and Rail (ADR-RID):

N.A.

Air (IATA):

N.A.

Sea (IMDG): N.A.

15. REGULATORY INFORMATION

USA - Federal regulations

TSCA - Toxic Substances Control Act

TSCA inventory:

All the components are listed on the TSCA inventory

TSCA listed substances:

is listed in TSCA Section 8b

is listed in TSCA $\,$ Section 8b Section 8a - PAIR $\,$

toluene diisocyanate; 1,3- is listed in TSCA Section 8b Section 5a - SNUR Section 5

Diisocyanatomethylbenzene Section 12b

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

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Section 304 - Hazardous substances:

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

Section 313 - Toxic chemical list:

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act Substance(s) listed under CERCLA:

Reportable quantity: 5000 pounds

toluene diisocyanate; 1,3- Reportable quantity: 100 pounds

Diisocyanatomethylbenzene

CAA - Clean Air Act

CAA listed substances:

is listed in CAA Section 112(b) - HAP Section 112(b) - HON

toluene diisocyanate; 1,3- is listed in CAA Section 112(b) - HON

Diisocyanatomethylbenzene

CWA - Clean Water Act

CWA listed substances:

No substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

toluene diisocyanate; 1,3- Listed as carcinogen

Diisocyanatomethylbenzene

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

toluene diisocyanate; 1,3-Diisocyanatomethylbenzene

Canada - Federal regulations

DSL - Domestic Substances List

DSL (Domestic Substances List)

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

NDSL (Non Domestic Substances List)

No substances listed

NPRI - National Pollutant Release Inventory

NPRI (National Pollutant Release Inventory) - List of substances listed.

No substances listed

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16. OTHER INFORMATION

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Additional classification information

NFPA Health: 1 = Slight

NFPA Flammability: 1 = Combustible if heated

NFPA Reactivity: 1 = Slight NFPA Special Risk: N.A.



Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use. The information herein is presented in good faith and believed to be accurate as of the effective date given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

This document was prepared by a competent person who has received appropriate training.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Code	Description
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H351	Suspected of causing cancer if inhaled, in contact with skin and if swallowed.
H373	May cause damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.
H412	Harmful to aquatic life with long lasting effects.

Legend to abbreviations and acronyms used in the safety data sheet:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

 $\hbox{GHS: Globally Harmonized System of Classification and Labeling of Chemicals.}$

CLP: Classification, Labeling, Packaging.

EINECS: European Inventory of Existing Commercial Chemical Substances.

INCI: International Nomenclature of Cosmetic Ingredients.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

GefStoffVO: Ordinance on Hazardous Substances, Germany.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

DNEL: Derived No Effect Level.

PNEC: Predicted No Effect Concentration.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
WGK: German Water Hazard Class.

KSt: Explosion coefficient.

Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 6. ACCIDENTAL RELEASE MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 14. TRANSPORT INFORMATION
- 16. OTHER INFORMATION

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