Safety Data Sheet RESFOAM HB 45

Safety Data Sheet dated: 12/14/2023 - version 1

Date of first edition: 12/14/2023

MAPEI

1. Identification

Product identifier

Mixture identification:

Trade name: RESFOAM HB 45

Trade code: 9024453

Recommended use and restrictions on use

Recommended use: Polyurethanic coating

Restrictions on use: Not available

Supplier's details

Company: MAPEI INC. (Canada)

2900 Francis-Hughes Avenue H7L 3J5 - Laval - QC - CAN

Phone: 1-450-662-1212

Responsable: RDProductSafety@mapei.com

Emergency phone number

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

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

2. Hazard identification





Classification of the product

Causes skin irritation. Skin irritation, Category 2

Respiratory Sensitization, Category 1 May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Skin Sensitization, Category 1 May cause an allergic skin reaction.

Carcinogenicity, Category 2 Suspected of causing cancer if inhaled, in contact with skin and if

swallowed.

Eye irritation, Category 2A Causes serious eye irritation.

Specific target organ toxicity following single exposure, May cause respiratory irritation.

Category 3

Specific target organ toxicity following repeated exposure,

Category 2

May cause damage to organs through prolonged or repeated exposure

if inhaled or swallowed.

Label elements

Hazard pictograms and Signal Word



Hazard statements

Causes skin irritation. H315

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

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 or swallowed.

Precautionary statements

P201 Obtain special instructions before use.

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

Print date 12/15/2023 **Production Name RESFOAM HB 45** Page n. 1 of 11

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.	
P284	[In case of inadequate ventilation] wear respiratory protection.	
P302+P352	IF ON SKIN: Wash with plenty of water.	
P304+P340	IF INHALED: Remove person to fresh air and keep 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.	
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 or doctor/physician.	
P362+P364	Take off contaminated clothing and wash it before reuse.	
P405	Store locked up.	
P501	Dispose of contents/container in accordance with applicable regulations.	
Other hazards		
None		

Ingredient(s) with unknown acute toxicity

None

3. Composition/information on ingredients

Substances

Not Relevant

Mixtures

Hazardous components within the meaning of WHMIS 2015 and related classification:

List of components

Qty	Name	Ident. Numb.	Classification	Registration Number
25-50 %	dibutyl maleate; 2-butenedioic acid (2Z)-, 1,4-dibutyl ester	CAS:105-76-0 EC:203-328-4	Skin Sens. 1, H317; STOT RE 2, H373	
10-20 %	diphenylmethane-4,4'-diisocyanate	CAS:101-68-8 EC:202-966-0 Index:615-005- 00-9	Acute Tox. 4, H332; Eye Irrit. 2A, H319; STOT SE 3, H335; Skin Irrit. 2, H315; Resp. Sens. 1, H334; Skin Sens. 1, H317; STOT RE 2, H373; Carc. 2, H351	01-2119457014-47-XXXX
5-10 %	4,4'-methylenediphenyl diisocyanate, oligomers; Benzene, 1,1'-methylenebis[4-isocyanato-, homopolymer		Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Resp. Sens. 1, H334; Skin Sens. 1, H317; Carc. 2, H351; STOT SE 3, H335; STOT RE 2, H373	
0.49-1 %	Reaction mass of 4,4'- methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	EC:247-714-0	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Resp. Sens. 1, H334; Skin Sens. 1B, H317; Carc. 2, H351; STOT SE 3, H335; STOT RE 2, H373	01-2119457015-45-XXXX

The actual concentration of the components listed above is withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediately and dispose of safely.

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

If skin irritation or rash occurs: Get medical advice/attention.

RESFOAM HB 45 Print date 12/15/2023 **Production Name** Page n. 2 of 11

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.

Remove contact lenses, if present and easy to do. Continue rinsing.

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.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Most important symptoms/effects, acute and delayed

Eye irritation

Eye damages

Skin Irritation

Ervthema

Indication of immediate medical attention and special treatment needed, if necessary

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

Suitable and unsuitable extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Unsuitable extinguishing media:

None in particular.

Specific hazards arising from the hazardous product

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Hazardous combustion products: Not available

Explosive properties: Not available Oxidizing properties: Not available

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.

 Print date
 12/15/2023
 Production Name
 RESFOAM HB 45
 Page n.
 3 of 11

Wash skin thoroughly after handling.

See also section 8 for recommended protective equipment.

Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

Storage temperature: Not available

8. Exposure controls/personal protection **Control parameters**

Community Occupational Exposure Limits (OEL)

OEL

diphenylmethane-4,4'diisocyanate CAS: 101-68-8

Type **ACGIH** Long Term: 0.005 ppm

Country

Resp sens

MAK **GERMANY** Long Term: 0.05 mg/m3 **ACGIH** Long Term: 0.005 ppm

respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))

OSHA Short Term: Ceiling - 0.2 mg/m3 - 0.02 ppm

Occupational Exposure Limit

MAK **AUSTRIA** Long Term: 0.05 mg/m3 - 0.005 ppm; Short Term: 0.1 mg/m3 - 0.01 ppm

ACGIH Long Term: 0.005 ppm

respiratory sensitization (listed under Methylene bisphenyl isocyanate (MDI))

OSHA Short Term: Ceiling - 0.2 mg/m3 - 0.02 ppm **OSHA** Short Term: Ceiling - 0.2 mg/m3 - 0.02 ppm

Reaction mass of 4,4'methylenediphenyl diisocyanate and o-(pisocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate CAS: 26447-40-5

> MAK **AUSTRIA** Short Term: 0.1 mg/m3 - 0.01 ppm

Predicted No Effect Concentration (PNEC) values

diphenylmethane-4,4'-

diisocyanate CAS: 101-68-8 Exposure Route: Fresh Water; PNEC Limit: 1 mg/l

Exposure Route: Marine water; PNEC Limit: 0.1 mg/l

Exposure Route: Soil; PNEC Limit: 1 mg/kg

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 1 mg/l

Exposure Route: Intermittent release; PNEC Limit: 10 mg/l

Derived No Effect Level (DNEL) values

diphenylmethane-4,4'diisocyanate

CAS: 101-68-8

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Worker Industry: 50 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Worker Industry: 0.1 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Worker Industry: 0.1 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Worker Industry: 0.05 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Worker Industry: 0.05 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects

Consumer: 25 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects

Print date 12/15/2023 **Production Name RESFOAM HB 45** Page n. 4 of Consumer: 0.05 mg/m3

Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects

Consumer: 20 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects

Consumer: 0.05 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects

Consumer: 0.025 mg/m3

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects

Consumer: 0.025 mg/m3

Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects

Worker Industry: 28.7 mg/cm2; Consumer: 17.2 mg/cm2

Appropriate engineering controls

Not available

Individual protection measures, such as personal protective equipment (PPE)

Eye protection:

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: Cloudy

Odour: No data available

Odour threshold: No data available

pH: No data available

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: No data available Solubility in water: No data available 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: No data available

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

 Print date
 12/15/2023
 Production Name
 RESFOAM HB 45
 Page n.
 5 of 11

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

11. Toxicological information

Information on toxicological effects

Likely routes of exposure:

Skin contact, skin absorption, eye contact, inhalation and ingestion.

Toxicological Information of the Preparation

a) acute toxicity Not classified

Based on available data, the classification criteria are not met

The product is classified: Skin irritation, Category 2(H315) b) skin corrosion/irritation c) serious eye damage/irritation The product is classified: Eye irritation, Category 2A(H319)

d) respiratory or skin sensitisation The product is classified: Respiratory Sensitization, Category 1(H334), Skin

Sensitization, Category 1(H317)

e) germ cell mutagenicity Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity The product is classified: Carcinogenicity, Category 2(H351)

g) reproductive toxicity Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure The product is classified: Specific target organ toxicity following single exposure,

Category 3(H335)

The product is classified: Specific target organ toxicity following repeated exposure, i) STOT-repeated exposure

Category 2(H373)

Not classified j) aspiration hazard

Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

dibutyl maleate: 2butenedioic acid (2Z)-, 1,4-dibutyl ester

a) acute toxicity

LD50 Oral Rat = 3730 mg/kg

diphenylmethane-4,4'diisocyanate

a) acute toxicity

LD50 Oral Rat > 2000 mg/kg

LD50 Skin Rabbit > 9400 mg/kg

b) skin corrosion/irritation Skin Irritant Skin Rabbit Positive

d) respiratory or skin

sensitisation

Skin Sensitization Skin Mouse Positive

Respiratory Sensitization Inhalation Positive

f) carcinogenicity Carcinogenicity Inhalation Rat = 6 mg/m3 2 y NOAEL Inhalation Rat = 12 mg/m3 20 d g) reproductive toxicity

Reaction mass of 4.4'methylenediphenyl diisocyanate and o-(pisocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate

a) acute toxicity

LD50 Skin Rabbit > 10000 mg/kg

Print date 12/15/2023 **Production Name RESFOAM HB 45** Page n. 6 of

Substance(s) listed on the IARC Monographs:

diphenylmethane-4,4'-diisocyanate Group 3
Reaction mass of 4,4'- Group 3
methylenediphenyl diisocyanate
and o-(p-isocyanatobenzyl)phenyl
isocyanate / methylene diphenyl
diisocyanate

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

None

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

None

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

None

12. Ecological information

Ecotoxicity

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

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

List of Eco-Toxicological properties of the components					
Component	Ident. Numb.	Ecotox Data			
dibutyl maleate; 2-butenedioic acid (2Z)-, 1,4-dibutyl ester	CAS: 105-76-0 - EINECS: 203- 328-4	a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 21 mg/L 48h IUCLID			
		a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 1.2 mg/L 96h ECHA			
		a) Aquatic acute toxicity : EC50 Algae Scenedesmus subspicatus = 6.2 mg/L 72h IUCLID			
diphenylmethane-4,4'-diisocyanate	ECAS: 101-68-8 - EINECS: 202- 966-0 - INDEX: 615-005-00-9	a) Aquatic acute toxicity: LC50 Fish > 1000 mg/L 96			
		a) Aquatic acute toxicity: EC50 Daphnia > 1000 mg/L 24			
		b) Aquatic chronic toxicity: NOEC Daphnia > 10 mg/L - 21 d			
		a) Aquatic acute toxicity: EC50 Algae > 1640 mg/L 72			
		c) Bacteria toxicity: EC50 > 100 mg/L 3			
		d) Terrestrial toxicity: NOEC > 1000 mg/kg - 14 d			
		e) Plant toxicity: NOEC > 1000 mg/kg - 14 d			
Reaction mass of 4,4'- methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate	CAS: 26447-40- 5 - EINECS: 247-714-0 - INDEX: 615- 005-00-9	d) Terrestrial toxicity: LC50 Worm Eisenia foetida > 1000 mg/kg 14d IUCLID			
		d) Terrestrial toxicity : NOEC Worm Eisenia foetida $>= 1000 \text{ mg/kg} \ 14d$ IUCLID			

Persistence and degradability

N.A.

Bioaccumulative potential

N.A.

Mobility in soil

Print date 12/15/2023 Production Name RESFOAM HB 45 Page n. 7 of 11

Other adverse effects

NΑ

13. Disposal considerations

Safe handling and methods for disposal

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.

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

TDG-UN number: Not Applicable ADR-UN number: Not Applicable DOT-UN Number: Not Applicable IATA-Un number: Not Applicable IMDG-Un number: Not Applicable

UN proper shipping name

TDG-Shipping Name: Not Applicable
ADR-Shipping Name: Not Applicable
DOT-Proper Shipping Name: Not Applicable
IATA-Technical name: Not Applicable
IMDG-Technical name: Not Applicable

Transport hazard class(es)

TDG-Class: Not Applicable
ADR-Class: Not Applicable
DOT-Hazard Class: Not Applicable
IATA-Class: Not Applicable

IMDG-Class: Not Applicable

Packing group

TDG-Packing Group: Not Applicable ADR-Packing Group: Not Applicable DOT Packing Group: Not Applicable IATA-Packing group: Not Applicable IMDG-Packing group: Not Applicable

Environmental hazards

Marine pollutant: No

Environmental Pollutant: Not Applicable

DOT-RQ: Not Applicable

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

Not Applicable

Special precautions in connection with transport or conveyance

TDG:

Not Applicable

Department of Transportation (DOT):

Not Applicable

Road and Rail (ADR-RID):

Print date 12/15/2023 Production Name RESFOAM HB 45 Page n. 8 of 11

Not Applicable

Air (IATA):

Not Applicable

Sea (IMDG):

Not Applicable

15. Regulatory information

Canada - Federal regulations

DSL - Domestic Substances List

All the substances are listed in the DSL.

NDSL - Non Domestic Substances List

This product complies with NDSL inventory

NPRI - National Pollutant Release Inventory

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

No substances listed

USA - Federal regulations

TSCA - Toxic Substances Control Act

All the components are listed on the TSCA inventory

TSCA listed substances:

dibutyl maleate; 2-butenedioic acid (2Z)-, 1,4-dibutyl ester

is listed in TSCA Section 8b

diphenylmethane-4,4'-diisocyanate is listed in TSCA Section 8b Section 8a - PAIR Section 5

4,4'-methylenediphenyl is listed in TSCA Section 8b

diisocyanate, oligomers; Benzene, 1,1'-methylenebis[4-isocyanato-,

homopolymer

Reaction mass of 4,4'- is listed in TSCA Section 8b Section 8a - PAIR Section 5 methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl

diisocyanate

SARA - Superfund Amendments and Reauthorization Act

Section 302 - Extremely Hazardous Substances:

No substances listed

Section 304 - Hazardous substances:

diphenylmethane-4,4'-diisocyanate

Section 313 - Toxic chemical list:

diphenylmethane-4,4'-diisocyanate

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA:

diphenylmethane-4,4'-diisocyanate Reportable quantity: 5000 pounds

CAA - Clean Air Act

CAA listed substances:

diphenylmethane-4,4'-diisocyanate is listed in CAA Section 112(b) - HAP Section 112(b) - HON

CWA - Clean Water Act

CWA listed substances:

No substances listed

USA - State specific regulations

California Proposition 65

Substance(s) listed under California Proposition 65:

No substances listed

Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

diphenylmethane-4,4'-diisocyanate

Pennsylvania Right to know

Print date 12/15/2023 Production Name RESFOAM HB 45 Page n. 9 of 11

Substance(s) listed under Pennsylvania Right to know:

diphenylmethane-4,4'-diisocyanate

New Jersey Right to know

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

diphenylmethane-4,4'-diisocyanate

Reaction mass of 4,4'-methylenediphenyl diisocyanate and o-(p-isocyanatobenzyl)phenyl isocyanate / methylene diphenyl diisocyanate

16. Other information

Code

Safety Data Sheet dated: 12/14/2023 - version 1

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.

Description

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.		
H335	May cause respiratory irritation.		
H351	Suspected of causing cancer.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.		
Code	Hazard class and hazard category	Description	
Code A.1/4/Inhal	Hazard class and hazard category Acute Tox. 4	Description Acute toxicity (inhalation), Category 4	
	. ,	·	
A.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4	
A.1/4/Inhal A.2/2	Acute Tox. 4 Skin Irrit. 2	Acute toxicity (inhalation), Category 4 Skin irritation, Category 2	
A.1/4/Inhal A.2/2 A.3/2A	Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2A	Acute toxicity (inhalation), Category 4 Skin irritation, Category 2 Eye irritation, Category 2A	
A.1/4/Inhal A.2/2 A.3/2A A.4.1/1	Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2A Resp. Sens. 1	Acute toxicity (inhalation), Category 4 Skin irritation, Category 2 Eye irritation, Category 2A Respiratory Sensitization, Category 1	
A.1/4/Inhal A.2/2 A.3/2A A.4.1/1 A.4.2/1	Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2A Resp. Sens. 1 Skin Sens. 1	Acute toxicity (inhalation), Category 4 Skin irritation, Category 2 Eye irritation, Category 2A Respiratory Sensitization, Category 1 Skin Sensitization, Category 1	
A.1/4/Inhal A.2/2 A.3/2A A.4.1/1 A.4.2/1	Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2A Resp. Sens. 1 Skin Sens. 1 Skin Sens. 1B	Acute toxicity (inhalation), Category 4 Skin irritation, Category 2 Eye irritation, Category 2A Respiratory Sensitization, Category 1 Skin Sensitization, Category 1 Skin Sensitization, Category 1B	

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).

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.

 Print date
 12/15/2023
 Production Name
 RESFOAM HB 45
 Page n.
 10of
 11

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.

Print date 12/15/2023 Production Name RESFOAM HB 45 Page n. 11 of 11