

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version 4.0 Revision Date: 13.10.2025 SDS Number: 000000002050004467 Date of last issue: 23.08.2025
Date of first issue: 13.07.2024

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

1.1 Product identifier

Trade name : G-H-110 5KG
Product code : 000000002050004467
Unique Formula Identifier (UFI) : FFDC-16XE-M000-R8CG

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

Use of the Substance/Mixture : Putty

1.3 Details of the supplier of the safety data sheet

Company:

BASF Coatings GmbH
Postfach 6123
48136 Münster
Deutschland

Contact address:

BASF plc
4th and 5th Floors, 2 Stockport Exchange
Railway Road, Stockport, SK1 3GG
United Kingdom

Telephone: +44 161 475 3000
E-mail address: product-safety-uk-and-ireland@basf.com

1.4 Emergency telephone

International emergency number:
Telephone: +49 180 2273-112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Organic peroxides, Type E	H242: Heating may cause a fire.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - repeated	H373: May cause damage to organs through pro-

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2025
4.0	13.10.2025	0000000020500044	Date of first issue: 13.07.2024
		67	

exposure, Category 2
Short-term (acute) aquatic hazard, Category 1
Long-term (chronic) aquatic hazard, Category 1

longed or repeated exposure.
H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :



Signal Word : Warning

Hazard Statements :

H242	Heating may cause a fire.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements :

Prevention:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234	Keep only in original packaging.
P260	Do not breathe dust.
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P370 + P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391	Collect spillage.

Hazardous ingredients which must be listed on the label:

Benzoyl peroxide
maleic acid dibutyl ester

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version 4.0 Revision Date: 13.10.2025 SDS Number: 0000000020500044 Date of last issue: 23.08.2025
Date of first issue: 13.07.2024
67

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : organic peroxide
polyether
fillers
Water
cellulose ester

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Benzoyl peroxide	94-36-0 202-327-6 617-008-00-0 01-2119511472-50	Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 25 - < 50
maleic acid dibutyl ester	105-76-0 203-328-4 UK-20-0537843089-5-0000	Skin Sens. 1; H317 STOT RE 2; H373	>= 20 - < 25
Substances with a workplace exposure limit :			
calcium carbonate	471-34-1 207-439-9 UK-20-2749242067-7-0000 UK-20-9702550300-0-0000 UK-20-0537843089-5-0000		>= 1 - < 2
Magnesium carbonate	546-93-0 208-915-9 UK-20-0537843089-5-0000		>= 1 - < 2

For explanation of abbreviations see section 16.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version 4.0 Revision Date: 13.10.2025 SDS Number: 0000000020500044 Date of last issue: 23.08.2025
Date of first issue: 13.07.2024
67

SECTION 4: First aid measures

4.1 Description of first-aid measures

- General advice : Never give anything by mouth to an unconscious person. First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Move out of dangerous area.
- If inhaled : If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician immediately.
- In case of eye contact : Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Call a physician immediately. If easy to do, remove contact lens, if worn.
- If swallowed : Rinse mouth with water. Do not induce vomiting due to aspiration hazard. Keep at rest. If swallowed, call a poison control center or doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.
- Risks : May cause an allergic skin reaction. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.
- Dusts may cause mechanical irritation to eyes.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2025
4.0	13.10.2025	0000000020500044 67	Date of first issue: 13.07.2024

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No known specific antidote.
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray jet
Dry powder
Alcohol-resistant foam
Carbon dioxide (CO₂)

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Has a fire-promoting effect due to release of oxygen.
Fire will produce dense black smoke containing hazardous combustion products (see section 10).

5.3 Advice for firefighters

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Cool containers/tanks with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid breathing dust.
For non-emergency personnel:
Use personal protective equipment.
Ensure adequate ventilation, especially in confined areas.
Keep away from sources of ignition.
For emergency responders:

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2025
4.0	13.10.2025	0000000020500044	Date of first issue: 13.07.2024
		67	

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.
Avoid subsoil penetration.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Avoid dust formation.
Contain and collect mechanically and dispose of in accordance with local regulations.
Ensure adequate ventilation.

6.4 Reference to other sections

For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).
Do not return residues to the storage containers.
Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.
The workplace should be equipped with an emergency shower and eye-rinsing facility.
Avoid contact with the skin, eyes and clothing.
Handle in accordance with good industrial hygiene and safety practice.
Protect from moisture.
Avoid creating dust.

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted. Avoid dust formation.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely.
Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version 4.0 Revision Date: 13.10.2025 SDS Number: 0000000020500044 Date of last issue: 23.08.2025
Date of first issue: 13.07.2024
67

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Keep away from heat. Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. The product may have contact with suitable materials only, e.g. unpigmented polyethylene or steel to material code St 4571. Always keep in containers of same material as the original one. Observe label precautions. Protect from moisture. Keep in a dry, cool and well-ventilated place.

Advice on common storage : Reducing agents, heavy metal compounds, acids, alkalis, contamination.
Oxidizing agents
Organic materials

Recommended storage temperature : 5.00 - 25.00 °C

Packaging material : Suitable material: Polypropylene, Low density polyethylene (LDPE), High density polyethylene (HDPE), Polyethyleneterephthalate (PET)

7.3 Specific end use(s)

Specific use(s) : Please refer to the technical leaflet for further information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Benzoyl peroxide	94-36-0	TWA	5 mg/m ³	GB EH40
calcium carbonate	471-34-1	TWA (inhalable dust)	10 mg/m ³	GB EH40
		TWA (Respirable dust)	4 mg/m ³	GB EH40
Magnesium carbonate	546-93-0	TWA (inhalable dust)	10 mg/m ³	GB EH40
		TWA (Respirable dust)	4 mg/m ³	GB EH40

8.2 Exposure controls

Engineering measures

Ensure adequate ventilation.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version 4.0 Revision Date: 13.10.2025 SDS Number: 0000000020500044 Date of last issue: 23.08.2025
Date of first issue: 13.07.2024
67

Personal protective equipment

Eye/face protection : Required when there is a risk of eye contact.
tight-fitting protective goggles with face screen

Hand protection

Remarks : Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g. butyl rubber gloves - material thickness: 0.5 mm Further information on penetration time is available from the manufacturer of the glove. Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components. The suitability for a specific workplace should be discussed with the producers of the protective gloves. Request information on glove permeation properties from the glove supplier. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1) Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1): Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1)
Preventive skin protection

Skin and body protection : chemical-resistant disposable coveralls
Care should be taken in the selection of protective clothing to ensure that inflammation of the skin at neck and wrists through contact with the powder is avoided.

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
Wear respiratory protection if ventilation is inadequate.

Protective measures : Eye wash fountains and safety showers must be easily accessible.

If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Avoid contact with the skin, eyes and clothing.
Handle in accordance with good industrial hygiene and safety practice.
Avoid breathing dust.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2025
4.0	13.10.2025	0000000020500044	Date of first issue: 13.07.2024
		67	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	paste
Color	:	red
Odor	:	characteristic
pH	:	substance/mixture is non-soluble (in water)
Melting point/ range	:	not determined
Boiling point/boiling range	:	Study technically not feasible.
Flash point	:	not applicable, the product is a solid
Flammability (solid, gas)	:	Will not burn
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	not determined (50 °C) not determined (20 °C) The product is a non-volatile solid.
Relative vapor density	:	The product is a non-volatile solid.
Density	:	1.001 g/cm ³ (20 °C)
Solubility(ies)	:	
Water solubility	:	not determined
Partition coefficient: n-octanol/water	:	not applicable for mixtures
Autoignition temperature	:	> 200 °C
Decomposition temperature	:	The product is capable of self-sustaining progressive thermal decomposition.
Viscosity	:	
Viscosity, dynamic	:	No data available

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2025
4.0	13.10.2025	0000000020500044	Date of first issue: 13.07.2024
		67	

Viscosity, kinematic	:	not determined (40 °C)
		not determined (23 °C)
Flow time	:	> 670 s at 23 °C
		Cross section: 6 mm
		Method: ISO 2431
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

9.2 Other information

Self-Accelerating decomposition temperature (SADT)	:	50 °C
Self-heating substances	:	The substance or mixture is not classified as self heating.
Metal corrosion rate	:	Not corrosive to metals.
Particle size	:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Dust can form an explosive mixture in air.
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10.4 Conditions to avoid

Conditions to avoid	:	Heat.
		Avoid direct sunlight.
		Avoid impact, friction and electrostatic loading.
		Avoid dust formation.

10.5 Incompatible materials

Materials to avoid	:	Organic materials
		Oxidizing agents
		Reducing agents, heavy metal compounds, acids, alkalis, contamination.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2025
4.0	13.10.2025	0000000020500044 67	Date of first issue: 13.07.2024

10.6 Hazardous decomposition products

Nitrogen oxides (NO_x)
Carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1 Toxicity

No data available

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2025
4.0	13.10.2025	0000000020500044	Date of first issue: 13.07.2024
		67	

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

Components:

Benzoyl peroxide:

Partition coefficient: n-octanol/water : log Pow: 3.2 (22 °C)
pH: 7
Method: OECD Test Guideline 117
GLP: yes

maleic acid dibutyl ester:

Partition coefficient: n-octanol/water : log Pow: 3.39 (25 °C)
pH: 7
Method: OECD Test Guideline 117

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version 4.0 Revision Date: 13.10.2025 SDS Number: 0000000020500044 Date of last issue: 23.08.2025
Date of first issue: 13.07.2024
67

SECTION 14: Transport information

14.1 UN number

ADN : UN 3108
ADR : UN 3108
RID : UN 3108
IMDG : UN 3108
IATA : UN 3108

14.2 UN proper shipping name

ADN : ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
ADR : ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
RID : ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
IMDG : ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)
(DIBENZOYL PEROXIDE)
IATA : ORGANIC PEROXIDE TYPE E, SOLID (DIBENZOYL PEROXIDE)

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 5.2	
ADR	: 5.2	
RID	: 5.2	
IMDG	: 5.2	
IATA	: 5.2	HEAT

14.4 Packing group

ADN
Packing group : Not assigned by regulation
Classification Code : P1
Labels : 5.2
ADR

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version 4.0 Revision Date: 13.10.2025 SDS Number: 0000000020500044 Date of last issue: 23.08.2025
Date of first issue: 13.07.2024
67

Packing group : Not assigned by regulation
Classification Code : P1
Labels : 5.2
Tunnel restriction code : (D)

RID

Packing group : Not assigned by regulation
Classification Code : P1
Hazard Identification Number : 539
Labels : 5.2

IMDG

Packing group : Not assigned by regulation
Labels : 5.2
EmS Code : F-J, S-R

IATA (Cargo)

Packing instruction (cargo aircraft) : 570
Packing group : Not assigned by regulation
Labels : Organic Peroxide, Keep Away From Heat

IATA (Passenger)

Packing instruction (passenger aircraft) : 570
Packing group : Not assigned by regulation
Labels : Organic Peroxide, Keep Away From Heat

14.5 Environmental hazards

ADN

Environmentally hazardous : yes

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version 4.0 Revision Date: 13.10.2025 SDS Number: 0000000020500044 Date of last issue: 23.08.2025
Date of first issue: 13.07.2024
67

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Not applicable
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EU) No 2024/590 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
Control of Major Accident Hazards Regulations 2015 (COMAH)	P6b	SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES
	E1	ENVIRONMENTAL HAZARDS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)
Not applicable

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment

Assessment of safe use has been performed for the mixture and the result is documented in section 7 and 8 of the SDS

SECTION 16: Other information

Full text of H-Statements

H241	:	Heating may cause a fire or explosion.
H317	:	May cause an allergic skin reaction.
H319	:	Causes serious eye irritation.
H373	:	May cause damage to organs through prolonged or repeated exposure.
H400	:	Very toxic to aquatic life.

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

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Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2025
4.0	13.10.2025	0000000020500044	Date of first issue: 13.07.2024

67

H410 : Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Irrit.	: Eye irritation
Org. Perox.	: Organic peroxides
Skin Sens.	: Skin sensitization
STOT RE	: Specific target organ toxicity - repeated exposure
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : Restricted to professional users.
For multi-pack systems observe material safety data sheets of

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



We create chemistry

G-H-110 5KG

Version	Revision Date:	SDS Number:	Date of last issue: 23.08.2025
4.0	13.10.2025	0000000020500044 67	Date of first issue: 13.07.2024

all components.

Classification of the mixture:

Org. Perox. E	H242
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

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