

Safety Data Sheet

SAF15 Ultimate
Revision Number 2

Revision Date 20-Nov-2023
Supersedes Date: 26-Jun-2018

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

1.1. Product Identifier

Product Name BOSTIK SAF 15 Ultimate

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

Use Industrial

1.3. Details of the supplier of the safety data sheet

MPI Matco
2519 Rue Cohen
Saint Laurent, QC H4R 2N5
(514) 337- 6050
info@mpi-matco.com

1.4 Emergency telephone number

Centre anti-poison du Québec (CAPQ) - 1 (800) 463-5060
Ontario Poison Centre 1 (800) 268-9017
USA Poison Control - 1-800-227-0332

Section 2: HAZARDS IDENTIFICATION

Label elements

Risk Phrases

The product may be a skin sensitizer. It may also be a skin irritant and repeated contact may increase this effect.

Hazards identification

Highly flammable and liquid vapour
Causes serious eye irritation
Causes skin irritation
May cause an allergic skin reaction
May cause respiratory irritation
Skin and eye contact

Primary route of exposure

Symptoms relating to use

Ingestion

Must not come into contact with food or be consumed

2.1 Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification

F; R11
Xi; R36/37/38
R43
R52-53

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards

Skin irritation – Cat. 2 – Warning – (CLP: Skin irrit. 2) – H315
Eye irritation – Cat. 2A – Warning – (CLP: Eye irrit. 2) – H319
Skin sensitisation – Cat. 1 – Warning – (CLP: Skin Sens. 1) – H317
Specific Target Organ Toxicity – Single Exposure – Respiratory tract irritation – Cat. 3 – Warning (CLP: STOT SE 3)

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2.2 Label element

Labelling EC 67/548 or EC 1999/45

Symbol(s)



R Phrase(s)

Xi: irritant

F: Highly flammable

R11: Highly flammable

R36/37/38: Irritating to eyes, respiratory system and skin

R43: May cause sensitization by skin contact

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

S37: Wear suitable gloves

S Phrase(s)

Labelling regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words

Hazard statements

SGH02

SGH07

Danger

H225 – Highly flammable liquid and vapour

H319 – Causes serious eye irritation

H315 – Causes skin irritation

H317 – May cause allergic skin reaction

H335 – May cause respiratory irritation

Precautionary statements

General

P101 – If medical advice is needed, have product container or label at hand

Prevention

NA – Keep away from ignition sources such as heat, sparks and open flame. No smoking

P280 – Wear protective gloves/protective clothing/eye protection/face protection. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Response

P242 – Use only non-sparking tools

P337+P313 – If eye irritation persists: Get medical advice/attention

P370+380 – In case of fire, evacuate area

P403+235 – Store in a cool and well-ventilated place

Storage

None under normal conditions

2.3 Other hazards

SECTION 3: Composition/Information on ingredients

3.1/3.2 Substance/Preparation

Components

This product is hazardous

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Substance Name	Contents	CAS No	EC No	Annex No	Ref REACH	Classification
Methyl methacrylate	Between 35 and 50%	80-62-6	201-297-1	607-030-00-6	---	F; R11 Xi; R37/38 R43 ----- Flam. Liq. 2; H225 Skin irrit. 2; H315 STOT SE 3; H335 Skin Sens. 1; H317
2-Propenoic acid, 2-methyl, 2-hydroethyl ester, phosphate	Between 1 and 5%	24599-21-1	246-342-6	---	---	C; R34 Xi; R37 R43 ----- Skin Corr. 1B; H314 STOT SE 3; H335 Skin Sens. 1; H317
Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)	Between 0.01 and 1%	25068-38-6	500-033-5	603-074-00-8	---	Xi; R36/38 R43 N; R51-53 ----- Eye irrit. 2; H319 Skin irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411
Methacrylic acid	Between 0.01 and 1%	79-41-4	201-204-4	607-088-00-5	---	Xn; R21/22 C; R35 ----- Not CLP Acute Tox. 4 (Dermal); H312 Acute Tox. 4 (Oral); H302
N, N-dimethyl-p-toluidine	Between 0.01 and 1%	99-97-8	202-805-4	612-056-00-9	---	Xn; R23/24/25 R33 R52-53 ----- Acute Tox. 3 (Dermal); H311 Acute Tox. 3 (Inhalation) H331 Acute Tox. 3 (Oral); H301 Aquatic Chronic 3; H412
1-methoxy-2-propanol, monopropylene glycol methyl ether	Between 0.1 and 1%	107-98-2	203-539-1	603-064-00-3	01-2119457435-35	R10 R67 ----- Flam. Liq 3; H226 Not CLP

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

First aid measures

Inhalation

Skin contact

Eye contact

Take off immediately all contaminated clothing

Remove victim to fresh air. Assure fresh air breathing.

If breathing is difficult, give oxygen. Obtain medical attention.

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.

Rinse immediately with plenty of water.

Ensure adequate flushing of eyes by separating eyelids with fingers. Obtain medical attention if pain, blinking, tears or redness persists.

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Ingestion

Rinse mouth. Do not induce vomiting. Seek medical attention if ill effect develops.

4.2 Most important symptoms and effects, both acute and delayed

May cause sensitization by skin contact. Skin and eye irritant.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

Extinguishing media

Dry powder, water fog, carbon dioxide (CO₂) and foam.

5.2 Special hazards arising from the substance or mixture

Specific hazards

May form flammable vapour-air mixture

Hazardous combustion products

Toxic gases (Cox)

5.3 Advice for firefighters

Protection against fire

Do not enter fire area without proper protective equipment, including respiratory protection

Prevention

Keep away from sources of ignition. No smoking

Special procedures

Exercise caution when fighting any chemical fire

Surrounding fires

Use water spray or fog for cooling exposed containers

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, protective equipment and emergency procedures

For emergency responders

In case of insufficient ventilation, wear suitable respiratory equipment. Keep public away from danger area. Equip cleanup crew with proper protection. No smoking.
Do not get in eyes, on skin or on clothing.

6.2 Environmental precautions

Environmental precautions

Spread coarse, inert granular cover such as sand, on any affected walking surface. Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

Clean up methods

Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Clean up any spills as soon as possible by using an absorbent material to collect it. Use suitable disposal containers. Incinerate.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling

Do not breathe vapour. Wear protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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Technical protective measures
General

Use grounded electrical/mechanical equipment
Vapours may be heavier than air.
Keep away from sources of ignition. No smoking.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Keep container tightly closed and at a temperature not exceeding 25°C. Keep only in the original container in a cool, well ventilated place. Keep in fireproof place. Store in tightly closed, properly ventilated containers away from heat, sparks, open flame.

Precautions in handling and storage

Good ventilation of the workplace required.

7.3 Specific end use(s)

Not applicable

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Methyl methacrylate: VME – France [ppm]: 100

Methyl methacrylate: VME – France [mg/m³]: 410

Methyl methacrylate: VLE – France [ppm]: 200

Methyl methacrylate: VLE – France [mg/m³]: 820

Methyl methacrylate: TLV[®] – STEL [ppm]: 100

Methyl methacrylate: TLV[®] –TWA [ppm]: 50

N,N-dimethyl-p-toluidine: TLV[®] - TWA [ppm]: 2 (Toluidine)

1-methoxy-2-propanol, monopropylene glycol methyl ether: VME – France [ppm]: 100

1-methoxy-2-propanol, monopropylene glycol methyl ether: VME – France [mg/m³]: 360

1-methoxy-2-propanol, monopropylene glycol methyl ether: TLV[®] - STEL [ppm]: 150

1-methoxy-2-propanol, monopropylene glycol methyl ether: TLV[®] - TWA [ppm]: 100

1-methoxy-2-propanol, monopropylene glycol methyl ether: ILV (EU) – 15 min – [ppm]: 150

1-methoxy-2-propanol, monopropylene glycol methyl ether: ILV (EU) – 15 min – [mg/m³]: 568

1-methoxy-2-propanol, monopropylene glycol methyl ether: ILV (EU) – 8H – [ppm]: 100

1-methoxy-2-propanol, monopropylene glycol methyl ether: ILV (EU) – 8H – [mg/m³]: 375

8.2 Exposure controls

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. ABEK (EN14387)

Hand Protection

For prolonged contact, use nitrile or neoprene gloves or other material resistant to petroleum oils (EN374)

Skin Protection

Wear impervious rubber safety shoes.

Wear suitable protective clothing.

Eye Protection

Chemical goggles or safety glasses. (EN166)

Ingestion

When using, do not eat, drink or smoke.

Industrial Hygiene

Provide good ventilation in process area to prevent formation of vapour.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance

Physical state at 20°C Viscous Liquid

Colour Yellow-brown

b) Odour

Characteristic

d) pH

f) Initial Boiling point – boiling range

Boiling point [°C] No data available

Final boiling point [°C] No data available

g) Flash point

20

i) Flammability

k) Vapour pressure

Vapour pressure No data available

Vapour pressure, 50°C No data available

m) Relative density

0.98

n) Solubility

In water No data available

o) Partition coefficient: n-octanol/water

Log P octanol/water at 20°C No data available

p) Auto-ignition temperature

No data available

q) Thermal decomposition

r) Viscosity

Viscosity No data available

Viscosity at 20°C [mPa.s] 1 200 000

s) Explosive properties

Explosion limits – lower [%] No data available

Explosion limits – upper [%] No data available

t) Oxidising properties

u) Other information

Acid/alkali reserve [g NaOH/100g] No data available

Critical temperature [°C] No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Reacts vigorously with strong oxidizers and acids

10.4 Conditions to avoid

Keep away from ignition sources such as heat, sparks and open flame. No smoking.

Keep container tightly closed and at a temperature not exceeding 30°C Sparks. Overheating. Protect from sunlight.

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10.5 Incompatible materials

Conditions to avoid

Peroxides
Strong oxidizers
Strong acids
Strong bases

10.6 Hazardous decomposition products

According to process conditions, hazardous decomposition products may be generated

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicity information

<i>Acute toxicity</i>	Rat oral LD50 [mg/kg] 7900-9400 [CAS 80-62-6]
<i>Skin corrosion/irritation</i>	No data available
<i>Serious eye damage/irritation</i>	Eye irritation – Cat. 2A – Warning – (CLP: Eye irrit. 2) – H319
Rat inhalation LC50 [mg/l/4h]	29.8 mg/l
<i>Respiratory or skin sensitization</i>	Skin irritation – Cat. 2 – Warning – (CLP: Skin irrit. 2) – H315
<i>Germ cell mutagenicity</i>	No data available
Rat inhalation [mg/l] (6h/24h)	No data available
<i>Carcinogenicity</i>	No data available
<i>Reproductive toxicity</i>	No data available
<i>STOT-single exposure</i>	May cause respiratory irritation
<i>STOT-repeated exposure</i>	No data available
Rabbit dermal LD50 [mg/kg]	No data available
<i>Aspiration hazard</i>	No data available
Rabbit dermal [mg/kg/24h]	No data available
Rat oral LD50 [mg/kg]	No data available
Rat oral LD50 [mg/kg/24h]	No data available

Symptoms related to the physical, chemical and toxicological characteristics

Undesirable human health effects

Exposure may produce cough, mucus, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitisation reaction.
Slight irritant by ingestion.
Repeated or prolonged skin contact may cause irritation.
Irritating to eyes.

SECTION 12: Ecological information

12.1 Toxicity

Ecological effects information

LC50 – 96 Hour – fish [mg/l]	191 mg/l [cas 80-62-6]
48 Hour – EC50 – Daphnia magna [mg/l]	69 mg/l [cas 80-62-6]
LC50 72h Algae [mg/l]	> 110 mg/l [cas 80-62-6]

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12.2 Persistence and degradability

Persistence – degradability

Potentially biodegradable. 94% [cas 80-62-6]

BOD5 – value [mg/l]

No data available

COD – value [mg/l]

No data available

12.3 Bioaccumulative potential

1.38 logK(o/w) [cas 80-62-6]

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose in a safe manner in accordance with local/national regulations

General

Dispose of this material and its container at hazardous or special waste collection point. Dispose in a safe manner in accordance with local/national regulations.

Disposal method

Dispose of contents and/or container in accordance with local, regional, national and/or international regulation
Incineration is recommended

Industrial waste number

08 04 09 – Waste adhesives and sealants containing organic solvents or other dangerous substances. (Hazardous waste pursuant to Directive 91/689/EEC on hazardous waste)

SECTION 14: Transport information

14.1 UN number

Labelling

1133

3



14.2 UN proper shipping name

ADHESIVES (Methyl methacrylate)

14.3 Transport hazard class(es)

3

14.4 Packing group

III

14.5 Environmental hazards

No data available

14.6 Special precautions for user

No special work practices are needed beyond the above recommendations under anticipated conditions of normal use.

SECTION 15: Regulatory information

Pictograms (Precautionary statements)

Health hazards

Skin irritation – Cat. 2 – Warning – (CLP: Skin irrit. 2) – H315

Eye irritation – Cat. 2A – Warning – (CLP: Eye irrit. 2) – H319

Skin sensitisation – Cat. 1 – Warning – (CLP: Skin Sens. 1) – H317

Specific Target Organ Toxicity – Single Exposure – Respiratory tract irritation – Cat. 3 – Warning (CLP: STOT SE 3)

EC Labelling

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

Physical hazards

Flammable liquids – Cat. 2 – Danger – (CLP: Flam. Liq. 2) – H225
Ensure all national/local regulations are observed

15.2 Chemical safety assessment

Hazard pictograms



Signal words

Danger

EC Classification
67/548/EC & 1999/45/EC

No data available

F; R11
Xi; R36/37/38
R43

Hazard statements

R52-53
Highly flammable liquid and vapour
Causes serious eye irritation
Causes skin irritation
May cause allergic skin reaction
May cause respiratory irritation

Regulation (EC) No 1907/2006 or the European Parliament and of the Council of 18 December 2006

Directive 2006/121/EC of the European Parliament and of the Council of 18 December 2006

Precautionary statements

Symbol(s)

Xi: Irritant

General

F: Highly flammable

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

R Phrase(s)

R11: Highly flammable

R36/37/38: Irritating eyes, respiratory system and skin

R43: May cause sensitisation by skin contact

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Prevention

Keep away from ignition sources such as heat, sparks and open flame. No smoking.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Use only non-sparking tools

S Phrase(s)

S37: Wear suitable gloves

Response

If eye irritation persists: Get medical advice/attention

In case of fire, evacuate area

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Further Phrases

Contains: Methyl methacrylate – 2-Propenoic acid, 2-methyl, 2-hydroethyl ester, phosphate – Reaction product: bisphenol – A – (epichlorhydrin) epoxy resin (number average molecular weight ≤ 700) – Zinc dimethacrylate. May produce an allergic reaction.

Storage

Store un a cool and well-ventilated place

CLP classification

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Pictograms (Precautionary statements)



SECTION 16: Other information

List of relevant R-Phrases (§3)

R10: Flammable
 R11: Highly flammable
 R21/22: Harmful in contact with skin and if swallowed.
 R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
 R33: Danger of cumulative effects.
 R34: Causes burns.
 R35: Causes severe burns.
 R36/38: Irritating to eyes and skin
 R37: Irritating to respiratory system
 R37/38: Irritating to respiratory system and skin.
 R43: May cause sensitization by skin contact
 R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 R67: vapour may cause drowsiness and dizziness

H225 – Highly flammable liquid and vapour
 H226 – Flammable liquid and vapour
 H301 – Toxic if swallowed
 H302 – Harmful if swallowed
 H311 – Toxic in contact with skin
 H312 – Harmful in contact with skin
 H314 – Causes severe skin burns and eye damage
 H315 – Causes skin irritation
 H317 – May cause an allergic skin reaction

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H319 – Causes serious eye irritation
H331 – Toxic if inhaled
H335 – May cause respiratory irritation
H336 – May cause drowsiness or dizziness
H373 – May cause damage to organs ... through prolonged or repeated exposure...
H411 – Toxic to aquatic life with long lasting effects
H412 – Harmful to aquatic life with long lasting effect

Revision	1
Print date	14-09-2015
Further information	FOR INDUSTRIAL USE

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

End of document

Safety Data Sheet

SAF15 Ultimate - Hardener
Revision Number 2

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

Product identifier

Identification of the product	Hardener
Trade name	SAF15 Ultimate Hardener
Type of product	Organic peroxides

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

Use	Industrial
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Details of the supplier of the safety data sheet

Company identification	MPI Matco 2519 Rue Cohen Saint Laurent, QC H4R 2N5 (514) 337- 6050 info@mpi-matco.com
Emergency telephone number	Centre anti-poison du Québec (CAPQ)
Phone number	1 (800) 463-5060 Ontario Poison Centre 1 (800) 268-9017

SECTION 2: Hazards identification

Risk phrases	Irritating to eyes May cause sensitization by skin contact
Hazards identification	Causes serious eye irritation Causes skin irritation May cause an allergic skin reaction Toxic to aquatic life with long lasting effects

2.1 Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification	Xi; R36/38 R43 N; R51-53
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Hazard Class and Category Code(s), Regulation (EC) N°1272/2008 (CLP)

Health hazards	Skin irritation – Cat. 2 – Warning – (CLP: Skin irrit. 2) – H315 Eye irritation – Cat. 2A – Warning – (CLP: Eye irrit. 2) – H319 Skin sensitisation – Cat. 1 – Warning – (CLP: Skin Sens. 1) – H317
Environmental hazards	Hazardous to the aquatic environment – Chronic hazard – Cat. 2 – (CLP: Aquatic Chronic 2) – H411

2.2 Label elements

Labelling EC 67/548 or EC 1999/45

Symbol(s)	Xi: irritant N : Dangerous for the environment
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R Phrase(s) R36/38 : Irritating to eyes and skin
R43: May cause sensitization by skin contact
R51/53 : Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

S Phrase(s) S37 : Wear suitable gloves
S61: Avoid release to the environment. Refer to special instructions/Safety data sheet

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



SGH07

SGH09

Signal Words

Warning

Hazard statements

H319 – Causes serious eye irritation

H315 – Causes skin irritation

H317 – May cause an allergic skin reaction

H411 – Toxic to aquatic life with long lasting effects

Precautionary statements

General

P101 – If medical advice is needed, have product container or label at hand.

Prevention

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work

P280 – Wear protective gloves/protective clothing/eye protection/face protection.

Response

P337+P313 – If eye irritation persists: get medical advice/attention

Storage

P402+404 – Store in a dry place or in a tightly closed container

Disposal considerations

P501 – Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Non under normal conditions

2.3 Other hazards

SECTION 3: Composition/information on ingredients

3.1/3.2 Substance/Preparation

Components

This product is hazardous

Substance Name	Contents	CAS No	EC No	Annex No	Ref. REACH	Classification
Reaction product : bisphenol-A-(epichlorhydrin)-epoxy resin (number average molecular weight ≤700)	Between 15 and 25%	25068-38-6	500-033-5	603-074-00-8	---	Xi; R36/38 R43 N; R51-53 Eye irrit. 2; H319 Skin irrit. 2; H315 Skin sens 1; H317 Aquatic Chronic 2; H411

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Substance Name	Contents	CAS No	EC No	Annex No	Ref. REACH	Classification
Alkyl glycidylether C13C15	Between 5 and 10%	68081-84-5	2683582	---	---	Xi; R36/38 R43 N; R51-53 ----- Eye irrit. 2; H319 Skin irrit. 2; H315 Skin sens 1; H317 Aquatic chronic 2; H411
Dibenzoyl peroxide	Between 5 and 10%	94-36-0	202-327-6	617-008-00-0	01-2119511472-50	E; R3 O; R7 Xi; R36 R43 N; R50 ----- Org. Perox. B; H241 Eye irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400

SECTION 4: First aid measures

4.1 Description of first aid measures

First aid measures

Inhalation

Assure fresh air breathing

Skin contact

Wash skin with mild soap and water

Eye contact

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists

Ingestion

Do not induce vomiting, rinse mouth and seek medical attention if ill effect develops.

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

5.1 Extinguishing media

Suitable extinguishing media

Dry ice, water, foam and powder

5.2 Special hazards arising from the substance or mixture

Specific hazards

If involved in a fire the following toxic and/or corrosive fumes may be produced by thermal decomposition: (COx)

5.3 Advice for firefighters

Protection against fire

Do not enter fire area without proper protective equipment, including respiratory protection

Special procedures

Avoid (reject) fire-fighting water to enter environment. Exercise caution when fighting any chemical fire

Surrounding fires

Use water spray or fog for cooling exposed containers

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General precautions	Eliminate every possible source of ignition. Spill area may be slippery. Thermal decomposition generated toxic vapours
For emergency responders	Wear suitable respiratory equipment (Filter A2) Equip cleanup crew with proper protection

6.2 Environmental precautions

Environmental precautions	Prevent entry to sewers and public waters. May contaminate water supplies. Notify authorities if product enters sewers or public waters.
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6.3 Methods and material for containment and cleaning up

Clean up methods	Clean up any spills as soon as possible, using an absorbent material to collect it. Use appropriate container to avoid environmental contamination.
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6.4 Reference to other sections

See heading 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety procedures. Ensure prompt removal from eyes, skin and clothing.
General	Keep away from ignition sources such as heat, sparks and open flame. No Smoking. Avoid all unnecessary exposure.

7.2 Conditions for safe storage, including any incompatibilities

Storage	Store and handle as though always a serious potential fire/explosion and health hazard exists. Store in dry, cool, well-ventilated area. Keep container closed when not in use.
Storage – away from	All heat sources, including direct sunlight

7.3 Specific end use(s)

Not applicable

SECTION 8: Exposure controls/personal protection

Occupational Exposure Limits

Dibenzoyl peroxide : TLV[©] - TWA [mg/m³] : 5

8.1 Control parameters

Dibenzoyl peroxide : TLV[©] - TWA [mg/m³] : 5

8.2 Exposure Control

For prolonged contact, use nitrile or neoprene gloves or other material resistant to petroleum oils	
Personal Protection	Reserved to industrial installations
Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment. Filter A2

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Hand protection

For prolonged contact, use nitrile or neoprene gloves or other material resistant to petroleum oils

Skin protection

Wear suitable protective clothing

Eye protection

Safety glasses, goggles

Ingestion

When using, do not eat, drink or smoke.

Autres



Industrial hygiene

Keep away from food, drink and animal feeding

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance

Physical state at 20°C

Viscous liquid

Colour

Grey

b) Odor

Characteristic

d) pH

e) Melting point/Freezing point

f) Initial boiling point – Boiling point

Boiling point[°C]

No data available

Final boiling point [°C]

No data available

g) Flash point

No data available

i) Flammability

j) Explosion limits (lower – upper)

k) Vapour pressure

Vapour pressure

No data available

Vapour pressure, 50°C

No data available

l) Vapour density

m) Relative density

1.20

n) Solubility

In water

No data available

o) Partition coefficient : n-octanol/water

Log P octanol/water at 20°C

No data available

p) Auto-ignition temperature [°C]

No data available

q) Thermal decomposition

Not established

r) Viscosity

Viscosity

No data available

Viscosity at 25°C [mPa.s]

50 000

s) Explosive properties

Explosion limits - lower [%]

No data available

Explosion limits - upper [%]

No data available

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9.2 Other information

Acid/alkali reserve [g NaOH/100g]	No data available
Critical temperature [°C]	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Flammable vapours may also be present from over heating /melting / decomposition

10.3 Possibility of hazardous reactions

Thermal stability

Risk of exothermic decomposition at elevated temperatures, contact with other substances (such as acids, heavy-metal compounds or amines), friction or shock. This may result in the evolution of harmful and flammable gases or vapours.

All heat sources, including direct sunlight

10.4 Conditions to avoid

10.5 Incompatible materials

Materials to avoid

Amines, strong acids

10.6 Hazardous decomposition products

Hazardous decomposition products

Thermal decomposition generates toxic vapours (Cox)
Combination of hydrocarbons

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicity information

Acute toxicity

Rat oral LD50 [mg/kg] 30 000 [CAS 25068-38-6]

Inhalation

None under normal conditions

Skin corrosion/irritation

Rabbit dermal LD50 [mg/kg] >2000 [CAS 25068-38-6]

Serious eye damage/irritation

Not established

Respiratory or skin sensitisation

Not established

Germ cell mutagenicity

Not established

Rat inhalation [mg/l] (6h/24h)

No data available

Carcinogenicity

Not established

Reproductive toxicity

Not established

STOT – single exposure

Dermal

May cause sensitization by skin contact

STOT – repeated exposure

Not established

Rabbit dermal LD50 [mg/kg]

No data available

Aspiration hazard

Not established

Rabbit-rat dermal [mg/kg/24h]

No data available

Ocular

Causes serious eye irritation

Rat oral LD50 [mg/kg]

No data available

Rat oral LD50 [mg/kg/24h]

No data available

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SECTION 12: Ecological information

12.1 Toxicity

Ecological effects information

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

LC50 – 96h – fish [mg/l]

1.3 mg/l [cas 25068-3]

48h – EC50 – Daphnia magna [mg/l]

>2.1 mg/l [cas 25068-3]

IC50 72h Algae [mg/l]

> 11 mg/l [cas 25068-3]

12.2 Persistence and degradability

Persistence - degradability

Minimally biodegradable

BOD5 – valeur [mg/l]

No data available

COD – valeur [mg/l]

No data available

12.3 Bioaccumulative potential

Not established

12.4 Mobility in soil

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Incinerate

Dispose in a safe manner in accordance with local/national regulations

General

Avoid release to the environment. Dispose of this material and its container at hazardous or special waste collection point.

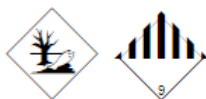
Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

14.1 UN Number

3077

Labelling



14.2 UN proper shipping name

Epoxydic components

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

14.3 Transport hazard class(es)

9

14.4 Packing group

III

14.5 Environmental hazards

This product contains hazardous components for the aquatic environment

14.6 Special precautions for user

Not applicable

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

Not applicable

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SECTION 15: Regulatory information

Health hazards

Skin irritation – Cat. 2 – Warning – (CLP: Skin irrit. 2) – H315
Eye irritation – Cat. 2A – Warning – (CLP: Eye irrit. 2) – H319
Skin sensitization – Cat. 1 – Warning – (CLP: Skin Sens. 1) – H317

EC Labelling

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

Environmental hazards Hazardous to the aquatic environment – Chronic hazard – Cat 2 – (CLP : Aquatic Chronic 2) – H411

Ensure all national/local regulations are observed

15.2 Chemical safety assessment

Hazard pictograms



Signal words

Warning

EC Classification

Xi; R36/38

67/548/EC & 1999/45/EC

R43

N; R51-53

Hazard statements

Causes serious eye irritation

Causes skin irritation

May cause an allergic skin reaction

Toxic to aquatic life with long lasting effects

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006

Directive 2006/121/EC of the European Parliament and of the Council of 18 December 2006

Symbol(s)

Xi: Irritant

N : Dangerous for the environment

General

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

R Phrase(s)

R36/38: Irritating to eyes and skin

R43: May cause sensitization by skin contact

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Prevention

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

S Phrases

S37: Wear suitable gloves

S61: Avoid release to the environment. Refer to special instructions/Safety data sheet

Response

If eye irritation persists: Get medical advice/attention

Further Phrases

Contains: Reaction product : bisphenol-A-epichlorhydrin epoxy resin (number average molecular weight ≤ 700) – Alkyl glycidylether C13C15 – Dibenzoyl peroxide. May produce an allergic reaction.

Storage

Store in a dry place or in a tightly closed container.

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Disposal considerations

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

CLP Classification

Regulation (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL OF 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) no 1907/2006.

Pictograms (Precautionary statements)



Hazard Class and Category Code REGULATION (EC) No 1272/2008 (CLP)

SECTION 16: Other information

List of relevant R phrases (§3)

R3 : Extreme risk of explosion by shock
 R7 : May cause fire
 R36 : Irritating to eyes
 R36/38 : Irritating to eyes and skin
 R43 : May cause sensitization by skin contact
 R50 : Very toxic to aquatic organisms
 R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 H241 – Heating may cause skin irritation
 H315 – Causes skin irritation
 H317 – May cause allergic skin reaction
 H319 – Causes serious eye irritation
 H400 – Very toxic to aquatic life
 H411 – Toxic to aquatic life with long lasting effects

Revision 1
 Print date 08-06-2015
 Further information None

The contents and format of this SDS are in accordance with REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

End of document