



SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

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

1.1. Product identifier

Product name : CMIX PLUS 300-CMIXTP-CMIXTG_ DURCISSEUR
HARDENER

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

Chemical fixing.

1.3. Details of the supplier of the safety data sheet

Registered company name : SPIT
Address : 150, avenue de Lyon 26500 BOURG-LES VALENCES France
Telephone : 0 810 102 102. Fax: 0 810 432 432. Telex: .
Email: msds-reach@spit.com
<http://spit.fr>

1.4. Emergency telephone number : +33(0) 1 45 42 59 59.

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

Other emergency numbers

National Poisons Information Service of England: <http://npis.org> - NHS 111: dial 111 - National Poisons Information Centre of Ireland: 353 (1) 809 2166 - LUXEMBOURG : (+352) 8002 5500 - European Emergency Number Association (EENA) : 112

SECTION 2 : HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

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

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

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

2.2. Label elements

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

Hazard pictograms :



GHS07

Signal Word :

WARNING

Product identifiers :

EC 202-327-6

DIBENZOYL PEROXIDE

Hazard statements :

H317

May cause an allergic skin reaction.

H319

Causes serious eye irritation.

H412

Harmful to aquatic life with long lasting effects.

Precautionary statements - General :

P102

Keep out of reach of children.

Precautionary statements - Prevention :

P261

Avoid breathing mist/vapours.

| | |
|---------------------------------------|--|
| P264 | Wash hands thoroughly after handling. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| Precautionary statements - Response : | |
| P302 + P352 | IF ON SKIN: Wash with plenty of water/soap. |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P362 + P364 | Take off contaminated clothing and wash it before reuse. |
| Precautionary statements - Disposal : | |
| P501 | Dispose of contents/container at a disposal facility in accordance with local regulations. |

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) $\geq 0.1\%$ published by the European CHemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances $\geq 0.1\%$ with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition :

| Identification | (EC) 1272/2008 | Note | % |
|--|--|------|-------------------------|
| CAS: 94-36-0 EC: 202-327-6 REACH: 01-2119511472-50 DIBENZOYL PEROXIDE | GHS07, GHS09, GHS01, GHS02 Dgr 241.P Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 10 | [1] | 10 \leq x % \leq 20 |
| CAS: 107-21-1 EC: 203-473-3 REACH: 01-2119456816-28 ETHANEDIOL | GHS07, GHS08 Wng Acute Tox. 4, H302 STOT RE 2, H373 | [1] | 3 \leq x % \leq 10 |

Specific concentration limits:

| Identification | Specific concentration limits | ATE |
|---|-------------------------------|-----------------------------|
| CAS: 107-21-1 EC: 203-473-3 REACH: 01-2119456816-28 ETHANEDIOL | | dermal: ATE = 3500 mg/kg BW |

Information on ingredients :

(Full text of H-phrases: see section 16)

[1] Substance for which maximum workplace exposure limits are available.

SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.
NEVER induce swallowing by an unconscious person.

4.1. description of first aid measures

In the event of exposure by inhalation :

If inhaled, move the patient into the fresh air and keep warm and at rest.
If breathing is irregular or has stopped, proceed with artificial respiration and seek medical attention.

In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.
If there is any redness, pain or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin :

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

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

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

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

In the event of swallowing :

Do not give the patient anything orally.

Seek medical attention immediately, showing the label.

4.2. Most important symptoms and effects, both acute and delayed

No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- powder
- foam

5.2. Special hazards arising from the substance or mixture

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

Do not breathe in smoke.

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

- carbon monoxide (CO)
- carbon dioxide (CO₂)

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid any contact with the skin and eyes.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Clean preferably with a detergent, do not use solvents.

6.4. Reference to other sections

No data available.

SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

Individuals with a history of skin sensitisation should not, under any circumstance, handle this mixture.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Fire prevention :

Prevent access by unauthorised personnel.

Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Avoid skin and eye contact with this mixture.

Prohibited equipment and procedures :

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

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Storage

Keep out of reach of children.

Packaging

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

7.3. Specific end use(s)

No data available.

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- European Union (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

| CAS | VME-mg/m3 : | VME-ppm : | VLE-mg/m3 : | VLE-ppm : | Notes : |
|----------|-------------|-----------|-------------|-----------|---------|
| 107-21-1 | 52 | 20 | 104 | 40 | Peau |

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|----------|---------|--------|-----------|--------------|------------|
| 94-36-0 | 5 mg/m3 | | | A4 | |
| 107-21-1 | - | - | 100 | - | - |

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

| CAS | VME : | VME : | Excess | Notes |
|----------|-------|----------|--------|-------|
| 94-36-0 | | 5E mg/m³ | | 1(I) |
| 107-21-1 | | 10 ppm | | 2(I) |
| | | 26 mg/m³ | | |

- Australia (NOHSC: 3008, 1995) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|----------|----------|--------|-----------|--------------|------------|
| 94-36-0 | 5 mg/m3 | | | H | |
| 107-21-1 | 10 mg/m3 | - | - | - | - |

- Austria (BGBl. II Nr. 156/2021) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|----------|----------|------------|-----------|--------------|------------|
| 94-36-0 | 5E mg/m³ | 10 E mg/m³ | | | |
| 107-21-1 | 10 ppm | 20 ppm | | | |
| | 26 mg/m³ | 52 mg/m³ | | | |

- Belgium (Royal decree of 11/05/2021) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|----------|---------|--------|-----------|--------------|------------|
| 94-36-0 | 5 mg/m³ | | | | |
| 107-21-1 | - | - | 101 | - | - |

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

| CAS | VME-ppm : | VME-mg/m3 : | VLE-ppm : | VLE-mg/m3 : | Notes : | TMP No : |
|----------|-----------|-------------|-----------|-------------|---------|----------|
| 94-36-0 | - | 5 | - | - | - | - |
| 107-21-1 | 20 | 52 | 40 | 104 | * | 84 |

- Switzerland (Suva 2021) :

| CAS | VME | VLE | Valeur plafond | Notations |
|----------|----------|----------|----------------|-----------|
| 94-36-0 | 5 ppm | 5 ppm | | |
| 107-21-1 | 10 ppm | 20 ppm | | |
| | 26 mg/m³ | 52 mg/m³ | | |

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|----------|----------|-----------|-----------|--------------|------------|
| 94-36-0 | 5 mg/m³ | | | | |
| 107-21-1 | 20 ppm | 40 ppm | | Sk | |
| | 52 mg/m³ | 104 mg/m³ | | | |

- USA / OSHA PEL (Occupational Safety and Health Administration, Permissible Exposure Limits) :

| CAS | TWA : | STEL : | Ceiling : | Definition : | Criteria : |
|---------|---------|--------|-----------|--------------|------------|
| 94-36-0 | 5 mg/m3 | | | | |

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

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



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

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

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

- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

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

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

Prescription glasses are not considered as protection.

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

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

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

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

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

Type of gloves recommended :

- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

- Butyl Rubber (Isobutylene-isoprene copolymer)

- Viton® (Hexafluoropropylene copolymer and vinylidene fluoride)

| | |
|-------------------|---------|
| Protection index: | 6. |
| Drilling time: | N/A |
| Thickness: | 0.4 mm. |

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

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

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

| | |
|------------------|--------|
| Physical state : | Paste. |
|------------------|--------|

Colour

| | |
|---------|----------------------------|
| Colour: | Beige. Black. White. Grey. |
|---------|----------------------------|

Odour

| | |
|-------------------|-------------|
| Odour threshold : | Not stated. |
|-------------------|-------------|

| | |
|--------|--------|
| Odour: | Light. |
|--------|--------|

Melting point

| | |
|-------------------------------|-------|
| Melting point/melting range : | 0 °C. |
|-------------------------------|-------|

Freezing point

| | |
|-----------------------------------|-------------|
| Freezing point / Freezing range : | Not stated. |
|-----------------------------------|-------------|

Boiling point or initial boiling point and boiling range

| | |
|-------------------------------|---------------|
| Boiling point/boiling range : | Not relevant. |
|-------------------------------|---------------|

Flammability

| | |
|-----------------------------|-------------|
| Flammability (solid, gas) : | Not stated. |
|-----------------------------|-------------|

Lower and upper explosion limit

| | |
|---|-------------|
| Explosive properties, lower explosivity limit (%) : | Not stated. |
|---|-------------|

| | |
|---|-------------|
| Explosive properties, upper explosivity limit (%) : | Not stated. |
|---|-------------|

Flash point

| | |
|------------------------|---------------|
| Flash point interval : | Not relevant. |
|------------------------|---------------|

Auto-ignition temperature

| | |
|-----------------------------|---------------|
| Self-ignition temperature : | Not relevant. |
|-----------------------------|---------------|

Decomposition temperature

| | |
|---|---------------|
| Decomposition point/decomposition range : | Not relevant. |
|---|---------------|

pH

| | |
|-------------------------|-------------|
| pH (aqueous solution) : | Not stated. |
|-------------------------|-------------|

| | |
|------|---------------|
| pH : | Not relevant. |
|------|---------------|

Kinematic viscosity

| | |
|-------------|-------------|
| Viscosity : | Not stated. |
|-------------|-------------|

Solubility

| | |
|--------------------|------------|
| Water solubility : | Insoluble. |
|--------------------|------------|

| | |
|------------------|-------------|
| Fat solubility : | Not stated. |
|------------------|-------------|

Partition coefficient n-octanol/water (log value)

| | |
|--|-------------|
| Partition coefficient: n-octanol/water : | Not stated. |
|--|-------------|

Vapour pressure

| | |
|--------------------------|---------------|
| Vapour pressure (50°C) : | Not relevant. |
|--------------------------|---------------|

Density and/or relative density

| | |
|-----------|------|
| Density : | 1.45 |
|-----------|------|

Relative vapour density

| | |
|------------------|-------------|
| Vapour density : | Not stated. |
|------------------|-------------|

9.2. Other information

No data available.

9.2.1. Information with regard to physical hazard classes

No data available.

Organic peroxides

| | |
|--------|--------|
| SADT : | ~ 50°C |
|--------|--------|

9.2.2. Other safety characteristics

No data available.

SECTION 10 : STABILITY AND REACTIVITY**10.1. Reactivity**

No data available.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid :

- heat
- exposure to light
- flames and hot surfaces

10.5. Incompatible materials

Keep away from :

- acids
- bases
- oxidising agents
- reducing agents

10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO₂)

SECTION 11 : TOXICOLOGICAL INFORMATION**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.
May cause an allergic reaction by skin contact.

11.1.1. Substances

Acute toxicity :

ETHANEDIOL (CAS: 107-21-1)

Dermal route : LD50 = 3500 mg/kg

DIBENZOYL PEROXIDE (CAS: 94-36-0)

Oral route : 2000 < LD50 <= 5000 mg/kg
Species : Rat

11.1.2. Mixture

No toxicological data available for the mixture.

11.2. Information on other hazards

Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 94-36-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

SECTION 12 : ECOLOGICAL INFORMATION

Harmful to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

ETHANEDIOL (CAS: 107-21-1)

Fish toxicity : LC50 > 72860 mg/l
Species : Pimephales promelas
Duration of exposure : 96 h

NOEC = 15380 mg/l

Crustacean toxicity :

EC50 > 100 mg/l
Species : Daphnia magna
Duration of exposure : 48 h

NOEC = 8590 mg/l

Algae toxicity :

ECr50 >= 6500 mg/l
Duration of exposure : 72 h

DIBENZOYL PEROXIDE (CAS: 94-36-0)

Fish toxicity : LC50 = 0.0602 mg/l
Factor M = 10
Species : Oncorhynchus mykiss
Duration of exposure : 96 h

Crustacean toxicity :

EC50 = 0.11 mg/l
Factor M = 1
Species : Daphnia magna
Duration of exposure : 48 h

Algae toxicity :

ECr50 = 0.071 mg/l
Factor M = 10
Duration of exposure : 72 h

12.1.2. Mixtures

Fish toxicity : No observed effect.
LC50 > 100 mg/l

Algae toxicity : Harmful.
ECr50 > 60 mg/l
Duration of exposure : 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

12.2. Persistence and degradability

12.2.1. Substances

ETHANEDIOL (CAS: 107-21-1)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

DIBENZOYL PEROXIDE (CAS: 94-36-0)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

12.2.2. Mixtures

Biodegradation : No data on decomposition is available, the mixture is not considered to decompose rapidly.

12.3. Bioaccumulative potential

12.3.1. Substances

ETHANEDIOL (CAS: 107-21-1)

Octanol/water partition coefficient : log K_{ow} = -1.36

DIBENZOYL PEROXIDE (CAS: 94-36-0)

Octanol/water partition coefficient : log K_{ow} = 3.46

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 2 : Hazardous for water.

SECTION 13 : DISPOSAL CONSIDERATIONS

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

13.1. Waste treatment methods

Do not pour into drains or waterways.

Waste :

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

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

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

Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

Codes of wastes (Decision 2014/955/EC, Directive 2008/98/EEC on hazardous waste) :

08 04 09 * waste adhesives and sealants containing organic solvents or other dangerous substances

SECTION 14 : TRANSPORT INFORMATION

Exempt from transport classification and labelling.

14.1. UN number or ID number

-

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

-

14.4. Packing group

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Maritime transport in bulk according to IMO instruments

-

SECTION 15: Regulatory information

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

- Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

- Container information:

No data available.

- Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):

<https://echa.europa.eu/substances-restricted-under-reach>.

- Particular provisions :

No data available.

- German regulations concerning the classification of hazards for water (WGK, AwSV Annex I, KBws) :

WGK 2 : Hazardous for water.

15.2. Chemical safety assessment

No data available.

SECTION 16 : OTHER INFORMATION

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

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

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

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

Wording of the phrases mentioned in section 3 :

| | |
|------|---|
| H241 | Heating may cause a fire or explosion. |
| H302 | Harmful if swallowed. |
| 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. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Abbreviations :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

LC50 : The concentration of a test substance resulting in 50% lethality in a given period.

EC50 : The effective concentration of substance that causes 50% of the maximum response.

ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE : Acute Toxicity Estimate

BW : Body Weight

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

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

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

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

WGK : Wassergefährdungsklasse (Water Hazard Class).

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.