Printing date 03/29/2022

Reviewed on 03/29/2022

#### 1 Identification

- · Product identifier
- · Trade name: EP126TK (Part-A)
- · Article number: Epoxy resin blend
- · Relevant identified uses of the substance or mixture and uses advised against

Recommended use - Adhesives, Sealants, Coatings

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Master Bond Inc.

154 Hobart Street

USA-Hackensack, NJ 07601

Phone: 201-343-8983

· Information department:

Product safety department

Emergency phone number: (CHEMTREC)

(North America): 800-424-9300 (International): 703-527-3887

#### 2 Hazard(s) identification

· Classification of the substance or mixture

Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2A

H319 Causes serious eve irritation.

Skin Sens. 1

H317 May cause an allergic skin reaction.

STOT SE 3

H335 May cause respiratory irritation.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS07

GHS09

- · Signal word Warning
- · Hazard statements

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause respiratory irritation.

Toxic to aquatic life with long lasting effects.

· Precautionary statements

Avoid breathing mist/vapours/spray.

Wash thoroughly after handling.

Wash contaminated clothing thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves / eye protection / face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

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Printing date 03/29/2022

Reviewed on 03/29/2022

Trade name: EP126TK (Part-A)

(Contd. of page 1)

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place.

Store in a closed container.

- · Classification system:
- · NFPA ratings (scale 0 4)



Health = 2Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2Fire = 1

REACTIVITY  $\boxed{0}$  Reactivity = 0

# 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

Hazardous components:	
Epoxy resin (CAS no. 25068-38-6)	50-100%
Aluminum powder (CAS no. 7429-90-5)	25-50%
Flexibilizer epoxy resin (CAS no. Trade secret, 68610-41-3)	1-10%
Main Components:	
Epoxy resin (CAS no. 25068-38-6)	50-100%
Aluminum powder (CAS no. 7429-90-5)	25-50%
Flexibilizer epoxy resin (CAS no. Trade secret, 68610-41-3)	1-10%
Siloxane treated silicon dioxide (CAS no. 67762-90-7)	1-10%
Silicon dioxide, chemically prepared (CAS no. 112945-52-5)	1-5%

#### 4 First-aid measures

- · Description of first aid measures
- · After inhalation:

In case of unconsciousness place patient stably in side position for transportation.

Seek medical treatment.

· After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Seek medical treatment.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Seek medical treatment.

· After swallowing:

Call a physician immediately. Clean mouth with water. Never give anything by mouth to an unconscious person. (Contd. on page 3)

Printing date 03/29/2022

Reviewed on 03/29/2022

Trade name: EP126TK (Part-A)

Seek medical treatment.

(Contd. of page 2)

#### 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Advice for firefighters
- · Protective equipment: Wear personal protective equipments.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective equipment.
- · Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

- · Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · Protective Action Criteria for Chemicals
- · PAC-1:

None of the ingredients is listed.

· PAC-2:

None of the ingredients is listed.

· PAC-3:

None of the ingredients is listed.

#### 7 Handling and storage

- · Handling:
- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles: No information available.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information: The lists that were valid during the creation were used as basis.

(Contd. on page 4)

Printing date 03/29/2022

Reviewed on 03/29/2022

Trade name: EP126TK (Part-A)

(Contd. of page 3)

- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Do not inhale gases / fumes / aerosols.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.
- · Protection of hands:



Protective gloves

- · Material of gloves Chemical resistant gloves.
- · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Safety glasses recommended.

THE RESERVE OF THE PERSON NAMED IN		
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	times Controlled	

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Color:

Non-drip

· Odor:

· pH-value:

Gray Odorless

· Odor threshold:

Not available

Not available

· Change in condition

Melting point/Melting range: Boiling point/Boiling range: Not available

· Flash point:

Not available
Not available

Flammability (solid, gaseous):

Not available

· Decomposition temperature: · Auto igniting:

Not available

· Danger of explosion:

Not available
Not available

· Explosion limits:

Lower: Upper: Not available Not available

· Vapor pressure:

Not available

(Contd. on page 5)

Printing date 03/29/2022

Reviewed on 03/29/2022

Trade name: EP126TK (Part-A)

(Contd. of page 4)

· Density:

Relative density at 20 °C (68 °F)

Vapor density

1.27 g/cm3 Not available

Evaporation rate

Not available

· Solubility in / Miscibility with

Water:

Insoluble.

· Partition coefficient (n-octanol/water): Not available

· Viscosity:

Dynamic:

Not available

Kinematic:

Not available

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide

#### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

25068-38-6 bisphenol-A-(epichlorohydrin) epoxy resin

Oral LD50 11400 mg/kg (rat)

Dermal LD50 2000 mg/kg (rat)

- · Primary irritant effect:
- · on the skin: Causes skin irritation.
- · on the eye: Severe eye irritant.
- · Sensitization: May cause allergic skin reaction.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

# 12 Ecological information

- · Ecotoxical effects:
- · Remark: Harmful to fish

(Contd. on page 6)

(Contd. of page 5)

# Safety Data Sheet acc. to OSHA HCS

Printing date 03/29/2022

Reviewed on 03/29/2022

Trade name: EP126TK (Part-A)

· Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

#### 14 Transport information

- · UN-Number
- $\cdot DOT$ : Not regulated
- · ADR, IMDG, IATA: 3082
- · UN proper shipping name
- : Not regulated
- · ADR, IMDG, IATA: Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)
- · Transport hazard class(es)
- $\cdot DOT$

: Not regulated

· ADR, IMDG, IATA



- · Class
- 9 Miscellaneous dangerous substances and articles
- · Label
- · Packing group
- $\cdot DOT$
- : Not regulated
- · ADR, IMDG, IATA: III

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- ·Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

(Contd. on page 7)

Printing date 03/29/2022

Reviewed on 03/29/2022

Trade name: EP126TK (Part-A)

(Contd. of page 6)

· TSCA (Toxic Substances Control Act):

All components have the value Active.

· Hazardous Air Pollutants

None of the ingredients is listed.

Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms





GHS07

GHS09

· Signal word Warning

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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- · Department issuing SDS: Product safety department
- · Contact: Master Bond Inc.
- · Date of preparation / last revision 03/29/2022 / -

(Contd. on page 8)

Printing date 03/29/2022

Reviewed on 03/29/2022

Trade name: EP126TK (Part-A)

(Contd. of page 7)

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)

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

ICAO: International Civil Aviation Organisation

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

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Skin Sens. 1: Skin sensitisation - Category 1

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - Category 2

US

Printing date 03/29/2022

Reviewed on 03/29/2022

#### 1 Identification

- · Product identifier
- · Trade name: EP126TK (Part-B)
- · Article number: Curing agent blend
- Relevant identified uses of the substance or mixture and uses advised against

Recommended use - Adhesives, Sealants, Coatings

- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Master Bond Inc.

154 Hobart Street

USA-Hackensack, NJ 07601

Phone: 201-343-8983

· Information department:

Product safety department

Emergency phone number: (CHEMTREC)

(North America): 800-424-9300 (International): 703-527-3887

## 2 Hazard(s) identification

· Classification of the substance or mixture

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).
- · Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard statements

Causes serious eye irritation.

May cause respiratory irritation.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Do not get in eyes, on skin, or on clothing.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves / eye protection / face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

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

If eye irritation persists: Get medical advice/attention.

Take off immediately all contaminated clothing and wash it before reuse.

Store in a closed container.

(Contd. on page 2)

(Contd. of page 1)

## Safety Data Sheet acc. to OSHA HCS

Printing date 03/29/2022

Reviewed on 03/29/2022

Trade name: EP126TK (Part-B)

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 2Fire = 1Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2Fire = 1

Reactivity = 0

## 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Hazardous components:	
4,4'-carbonyldi(phthalic anhydride) (CAS no. 2421-28-5)	25-50%
Aluminum powder (CAS no. 7429-90-5)	25-50%
· Main Components:	•
4,4'-carbonyldi(phthalic anhydride) (CAS no. 2421-28-5)	25-50%
Aluminum powder (CAS no. 7429-90-5)	25-50%

# 4 First-aid measures

- · Description of first aid measures
- · After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

Seek medical treatment.

· After skin contact:

Seek medical treatment.

Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Seek medical treatment.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Seek medical treatment.

Call a physician immediately. Clean mouth with water. Never give anything by mouth to an unconscious person.

#### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Advice for firefighters
- · Protective equipment: Wear personal protective equipments.

Printing date 03/29/2022

Reviewed on 03/29/2022

Trade name: EP126TK (Part-B)

(Contd. of page 2)

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective equipment.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · Protective Action Criteria for Chemicals
- · PAC-1:

None of the ingredients is listed.

· PAC-2:

None of the ingredients is listed.

· PAC-3:

None of the ingredients is listed.

## 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure adequate ventilation, especially in confined areas.

Ensure good ventilation/exhaustion at the workplace.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- · Requirements to be met by storerooms and receptacles: No information available.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.

#### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Breathing equipment: Use suitable respiratory protective device in case of insufficient ventilation.
- · Protection of hands:



Protective gloves

· Material of gloves Chemical resistant gloves.

(Contd. on page 4)

Printing date 03/29/2022

Reviewed on 03/29/2022

Trade name: EP126TK (Part-B)

· Penetration time of glove material

(Contd. of page 3)

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Safety glasses recommended.

Information on basic physical and	chemical properties	
General Information		
Appearance:	***	
Form:	Powder	
Color:	Gray	
Odor:	Odorless	
Odor threshold:	Not available	
pH-value:	Not available	
Change in condition		
Melting point/Melting range:	Not available	
Boiling point/Boiling range:	Not available	
Flash point:	Not available	
Flammability (solid, gaseous):	Not available	7 . W
Decomposition temperature:	Not available	
Auto igniting:	Not available	
Danger of explosion:	Not available	
Explosion limits:		
Lower:	Not available	
Upper:	Not available	
Vapor pressure:	Not available	
Density:	Not available	
Relative density	Not available	
Vapor density	Not available	
Evaporation rate	Not available	
Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/wat	er): Not available	
Viscosity:		
Dynamic:	Not available	

Printing date 03/29/2022

Reviewed on 03/29/2022

Trade name: EP126TK (Part-B)

(Contd. of page 4)

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Carbon monoxide

#### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- · on the skin: No information available
- on the eye:

No information available

Severe eye irritant.

- · Sensitization: No data available
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

#### 12 Ecological information

- · Additional ecological information:
- · General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

· Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

- US

Printing date 03/29/2022

Reviewed on 03/29/2022

Trade name: EP126TK (Part-B)

(Contd. of page 5)

#### 14 Transport information

- · UN-Number
- · DOT, ADR, IMDG, IATA: Not regulated
- · UN proper shipping name
- · DOT, ADR, IMDG, IATA: Not regulated
- · Transport hazard class(es)
- · DOT, ADR, IMDG, IATA: Not regulated
- · Packing group
- · DOT, ADR, IMDG, IATA: Not regulated

#### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.
- ·Sara
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All components have the value Active.

- · Hazardous Air Pollutants
- None of the ingredients is listed.
- · Proposition 65
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Carcinogenic categories
- · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

• GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 7)

Printing date 03/29/2022

Reviewed on 03/29/2022

(Contd. of page 6)

Trade name: EP126TK (Part-B)

· Hazard pictograms



· Signal word Warning

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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- · Department issuing SDS: Product safety department
- · Contact: Master Bond Inc.
- · Date of preparation / last revision 03/29/2022 / -
- · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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

ICAO: International Civil Aviation Organisation

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

ADR: Accord relatif au transport international des marchandises dangereuses par route (Éuropean Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

US