

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

1.1. Product identifier

Product form	: Mixture
Trade name	: PA12 210B070
Product code	: 210B070
Type of product	: Polymers
Product group	: Trade product

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

1.2.1. Relevant identified uses

Main use category	: Industrial use, Professional use
Industrial/Professional use spec	: Non-dispersive use
Use of the substance/mixture	: Resin for moulding and/or extrusion
Function or use category	: injection moulding and/or extrusion applications

1.2.2. Uses advised against

Recommended use are listed above; other uses are not recommended unless an assessment has provided that risks are controlled.

1.3. Details of the supplier of the safety data sheet

Supplier

Agiplast Italy Srl
Via Leonardo Da Vinci 40
26011 Casalbuttano, Cremona (CR) – Italy
T +39 0374 872480 - F +39 0374 872479
deborah.aglio@arkema.com giovanni.musilli@arkema.com

1.4. Emergency telephone number

Emergency number : +39 0374 872480

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GHS Regulation

Not classified

Adverse physicochemical, human health and environmental effects

None to be reported. For specific information about the toxicological/ecotoxicological properties and classification of this product, see Sect. 11 and/or Sect. 12.

2.2. Label elements

Labelling according to GHS Regulation

No labelling applicable

2.3. Other hazards (not relevant for classification)

Other hazards which do not result in classification : If the product is handled or used at high temperature, contact with hot product or vapours may cause burns. At high concentrations, the vapours can be irritating to the respiratory system. Prolonged and repeated skin contact may cause reddening, irritation and dermatitis.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Notes : Composition/Information on ingredients:
Polymers
Mixture of hydrocarbons
Additives
Colouring agents

Name	Product identifier	%	Classification according to GHS Regulation
N-butylbenzenesulphonamide	CAS-No.: 3622-84-2	≥ 6 < 9	Aquatic Chronic 3, H412
adipic acid	CAS-No.: 124-04-9	≥ 0.1 < 1	Eye Irrit. 2, H319

Full text of H -statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : No special measures required. In all cases of doubt, or when symptoms persist, seek medical attention.

First-aid measures after inhalation : In case of disturbances owing to inhalation of dust, remove the victim from exposure; keep at rest; if necessary, seek medical attention. Inhalation of mists or vapours at elevated temperatures may cause respiratory irritation. Move the affected person away from the contaminated area and into the fresh air. If symptoms persist call a doctor.

First-aid measures after skin contact : Wash skin with soap and water. If skin irritation or rash occurs, get medical advice/attention. If burned by contact with hot material, cool molten material adhering to skin as quickly as possible with water, and see a physician for removal of adhering material and treatment of burn. Hold the burned area under cold running water for at least five minutes, or until the pain subsides.

First-aid measures after eye contact : Rinse immediately with plenty of water, also under the eyelids. If dust particles remain in the eye, do not rub the eye as mechanical abrasion due to the dust may damage the cornea. Continue rinsing. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist. In case the hot product comes into contact with the eyes, rinse the injured part with water to dissipate the heat. Get immediate medical advice/attention.

First-aid measures after ingestion : Do not give anything to drink. Do not induce vomiting. If you feel unwell, seek medical advice.

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

Symptoms/effects after inhalation : None under normal conditions at ambient temperatures. In case of disturbances owing to inhalation of dust, remove the victim from exposure; keep at rest; if necessary, seek medical attention. Inhalation of fumes or oil mists produced at high temperatures may cause irritation of the respiratory tract.

Symptoms/effects after skin contact : Prolonged and repeated skin contact may cause reddening, irritation and dermatitis.

Symptoms/effects after eye contact : Not irritating to eyes.

Symptoms/effects after ingestion : Accidental ingestion of small quantities of the product may cause nausea, discomfort and gastric disturbances.

Symptoms/effects upon intravenous administration : No information available.

Chronic symptoms : None known.

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

Obtain medical attention if casualty has an altered state of consciousness or if symptoms do not resolve. Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂). Dry chemical. Foam. Other extinguishing gases (according to regulations).
- Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not flammable. No fire hazard.
- Explosion hazard : None known.
- Hazardous decomposition products in case of fire : Thermal decomposition generates : Carbon oxides (CO, CO₂). Sulfur oxides (SO_x). Nitrogen oxides. PO_x. ZnO_x.

5.3. Advice for firefighters

- Firefighting instructions : Shut off source of product, if possible. Move containers from fire area if it can be done without personal risk. Fight fire from safe distance and protected location.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. EN 137. EN 443. EN 469. EN 659.
- Other information : In case of fire, do not discharge residual product, waste materials and runoff water: collect separately and use a proper treatment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Stop or contain leak at the source, if safe to do so. Avoid direct contact with released material. Keep upwind. Spill area may be slippery.

6.1.1. For non-emergency personnel

- Protective equipment : Wear personal protective equipment.
- Emergency procedures : Alert emergency personnel. Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
- Emergency procedures : Notify local authorities according to relevant regulations. In case of large spillages, alert occupants in downwind areas.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Do not allow product to spread into the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.
- Methods for cleaning up : Prevent runoff from entering drains, sewers or waterways. Wash contaminated area with large amounts of water. This material and its container must be disposed of in a safe way, and as per local legislation. Transfer recovered product and other materials to suitable tanks or containers and store/dispose according to relevant regulations.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Wear personal protective equipment. Provide adequate ventilation. Avoid dust formation. Do not breathe fumes from hot product. When heated, material emits highly irritating vapours, affecting the eyes. Risk of splashing of hot material. Avoid contact with skin and eyes.
- Hygiene measures : Use adequate personal protective equipment as needed. Do not breathe fume/ mist/ vapours. Avoid contact with skin. Wash the hands thoroughly after handling. Do not ingest. Do not smoke. Do not eat and do not drink during use. Do not re-use clothes, if they are still contaminated. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool. Protect from moisture. Provide equipment/receptacles with earthing. Keep away from open flames, hot surfaces and sources of ignition.
- Incompatible products : Keep away from strong acids and strong oxidizers. Strong bases.
- Storage area : Storage area layout, tank design, equipment and operating procedures must comply with the relevant national or local legislation. Storage areas/installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.
- Packages and containers: : If the product is supplied in containers: Keep containers tightly closed and properly labelled. Keep only in the original container or in a suitable container for this kind of product.
- Packaging materials : For containers, or container linings use materials specifically approved for use with this product.

7.3. Specific end use(s)

No available data.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

adipic acid (124-04-9)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	5 mg/m ³
	0.8 ppm

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Avoid contact with skin and eyes. Comply with the safety procedures. Where hot product is handled in confined spaces, effective local ventilation must be provided.

8.2.2. Personal protection equipment

Personal protective equipment:

Protective clothing. Safety glasses. Gas mask.

Personal protective equipment symbol(s):



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8.2.2.1. Eye and face protection

Eye protection:

Not required for normal conditions of use. Wear a face shield when working with molten material. If exposed to splashes or splashes in relation to the workmanship, adequate mucous membrane protection (mouth, nose, eyes) should be provided to avoid accidental absorption. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

8.2.2.2. Skin protection

Skin and body protection:

Wear protective clothing for operations with hot material: heat resistant coveralls (with trousers legs over boots and sleeves over cuffs of gloves), heat resistant heavy duty antiskid boots (e. g. leather). Antistatic non-skid safety shoes or boots, chemical resistant, if necessary heat resistant and insulated. Long-sleeved antistatic clothing, if necessary heat-resistant. If necessary, refer to the NIOSH-USA and related standards, for definition of characteristics and performance according to the risk rating of the area. Coveralls should be changed at the end of the work shift and cleaned as necessary to avoid transfer of product to clothes or underwear.

Hand protection:

Not required for normal conditions of use. When material is heated, wear gloves to protect against thermal burns. Use gloves respecting all the conditions and within the limits set by the manufacturer. Replace gloves immediately in case of cuts, holes or other signs of damages or degradation. If necessary, refer to the NIOSH-USA standard. Personal hygiene is a key element for an effective hand care. Gloves must be worn only with clean hands. After wearing gloves, hands must be carefully washed and dried.

8.2.2.3. Respiratory protection

Respiratory protection:

Not required for normal conditions of use. Wear suitable respiratory equipment in case of insufficient ventilation. Open or well ventilated spaces: in presence of oil mists and if the product is handled without adequate containment means: use full or half-face masks with filter for mists/aerosols. In case there is a significant presence of vapours (e.g. through handling at high temperature), use full or half-face masks with filter for hydrocarbon vapours (USA-NIOSH standard).

8.2.2.4. Thermal hazards

Thermal hazard protection:

If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment. Storage areas/installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills.

Consumer exposure controls:

Not applicable.

Other information:

None.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Colour	: Black
Appearance	: granules.
Odour	: Mild.
Odour threshold	: Lack of data (on mixture / components of the mixture) - Data not available
Melting point	: 168 – 178 °C
Freezing point	: Lack of data (on mixture / components of the mixture) - Data not available
Boiling point	: 314 °C
Flammability	: Not flammable
Explosive properties	: None (according to composition).
Oxidising properties	: None (according to composition).
Lower explosion limit	: Lack of data (on mixture / components of the mixture) - Data not available
Upper explosion limit	: Lack of data (on mixture / components of the mixture) - Data not available
Flash point	: Lack of data (on mixture / components of the mixture) - Data not available
Auto-ignition temperature	: Lack of data (on mixture / components of the mixture) - Data not available
Decomposition temperature	: Lack of data (on mixture / components of the mixture) - Data not available
pH	: Not applicable
pH solution	: Not applicable

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Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Solubility	: Insoluble in water. Soluble in phenol. Soluble in benzyl alcohol. Soluble in formic acid. Soluble in sulfuric acid.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for mixtures
Partition coefficient n-octanol/water (Log Pow)	: Not applicable for mixtures
Vapour pressure	: Not applicable
Vapour pressure at 50°C	: Not applicable
Density	: 1.02 g/l
Relative density	: Lack of data (on mixture / components of the mixture) - Data not available
Relative vapour density at 20°C	: Not applicable
Particle size	: Lack of data (on mixture / components of the mixture) - Data not available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid: High temperature. Moisture.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Combustion produces toxic gases. Carbon monoxide. Carbon dioxide. Sulfur oxides (SOx). Nitrogen oxides. Phosphorus compounds. Zinc oxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Dependent on the composition

N-butylbenzenesulphonamide (3622-84-2)	
LD50 oral rat	2070 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 4.066 mg/l air
adipic acid (124-04-9)	
LD50 oral rat	5560 mg/kg
LD50 dermal rat	7940 mg/kg bodyweight
LC50 Inhalation - Rat	7700 mg/m ³

Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
pH:	Not applicable

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Additional information : Dependent on the composition

N-butylbenzenesulphonamide (3622-84-2)	
pH	7.5 – 8.5

Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: Not applicable

Additional information : Dependent on the composition

N-butylbenzenesulphonamide (3622-84-2)	
pH	7.5 – 8.5

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Additional information : Dependent on the composition

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : Dependent on the composition

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : Dependent on the composition

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : Dependent on the composition

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

Additional information : Dependent on the composition

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Additional information : Dependent on the composition

N-butylbenzenesulphonamide (3622-84-2)	
NOAEL (oral, rat, 90 days)	51.9 mg/kg bodyweight (OECD 408)
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight/day (28d)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Additional information : Dependent on the composition

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Viscosity, kinematic	Not applicable

N-butylbenzenesulphonamide (3622-84-2)	
Viscosity, kinematic	156 mm ² /s

adipic acid (124-04-9)	
Viscosity, kinematic	Not applicable

Potential adverse human health effects and symptoms : Prolonged and repeated skin contact may cause reddening, irritation and dermatitis, Direct contact with the eyes is likely slightly irritating, Contact with hot product or vapours may cause burns, May cause respiratory irritation, Do not breathe fumes from hot product.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Handle in accordance with good industrial hygiene and safety practice.

Hazardous to the aquatic environment, short-term (acute) : Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : Not classified (Based on available data, the classification criteria are not met)

N-butylbenzenesulphonamide (3622-84-2)	
LC50 - Fish [1]	36.7 mg/l (Danio rerio)
EC50 - Crustacea [1]	56 mg/l

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N-butylbenzenesulphonamide (3622-84-2)	
EC50 72h - Algae [1]	49 mg/l (Raphidocelis subcapitata)
EC50 72h - Algae [2]	83 mg/l (Raphidocelis subcapitata)
adipic acid (124-04-9)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	85.7 mg/l
EC50 72h - Algae [1]	59 mg/l

12.2. Persistence and degradability

PA12 210B070	
Persistence and degradability	Not rapidly degradable.
N-butylbenzenesulphonamide (3622-84-2)	
Persistence and degradability	Rapidly degradable
adipic acid (124-04-9)	
Persistence and degradability	Readily biodegradable.
Biodegradation	60 % (1-6d)

12.3. Bioaccumulative potential

PA12 210B070	
Partition coefficient n-octanol/water (Log Pow)	Not applicable for mixtures
Partition coefficient n-octanol/water (Log Kow)	Not applicable for mixtures
Bioaccumulative potential	Not established.
N-butylbenzenesulphonamide (3622-84-2)	
Partition coefficient n-octanol/water (Log Kow)	2.01 (20 °C)
adipic acid (124-04-9)	
Partition coefficient n-octanol/water (Log Pow)	0.08
Bioaccumulative potential	Not bioaccumulable.

12.4. Mobility in soil

PA12 210B070	
Ecology - soil	No data available.
adipic acid (124-04-9)	
Ecology - soil	No data available.

12.5. Results of PBT and vPvB assessment

PA12 210B070	
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII	
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII	
Results of PBT assessment	The components in this formulation do not meet the criteria for classification as PBT or vPvB.

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12.6. Other adverse effects

Additional information : No other effects known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Prevent runoff from entering water courses, sewers and basements. Sludge should be incinerated, contained or reclaimed. Discharging into rivers and drains is forbidden.
Product/Packaging disposal recommendations : Do not dispose of the packaging without first carrying out the necessary cleaning.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

15.1 US Federal Regulations

EPCRA Section 302 Extremely Hazardous Substances:

None listed.

EPCRA 311/312 Hazard Classifications:

None listed.

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

None listed.

15.2 State regulations

Toxic Substances Control Act (TSCA):

Azacyclotridecan-2-one, homopolymer (CAS 25038-74-8)
N-butylbenzenesulphonamide (CAS 3622-84-2)
Adipic acid (CAS 124-04-9)
White mineral oil (petroleum) (CAS 8042-47-5)
Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (CAS 2082-79-3)
Tris(2,4-ditert-butylphenyl) phosphite (CAS 31570-04-4)

2024 CDR TSCA Inv Active:

Azacyclotridecan-2-one, homopolymer (CAS 25038-74-8)
N-butylbenzenesulphonamide (CAS 3622-84-2)
Adipic acid (CAS 124-04-9)
White mineral oil (petroleum) (CAS 8042-47-5)
Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (CAS 2082-79-3)
Tris(2,4-ditert-butylphenyl) phosphite (CAS 31570-04-4)

FIFRA-Inerts:

N-butylbenzenesulphonamide (CAS 3622-84-2)
White mineral oil (petroleum) (CAS 8042-47-5)
Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (CAS 2082-79-3)
Tris(2,4-ditert-butylphenyl) phosphite (CAS 31570-04-4)

SARA 110 Priority List of Hazardous Substances:

None listed

CERCLA Hazardous Substances:

Adipic acid (CAS 124-04-9)

CAA 112(r) Regulated Chemicals For Accidental Release Prevention:

None listed

Green Chemistry Expert System (GCES):

N-butylbenzenesulphonamide (CAS 3622-84-2)
Adipic acid (CAS 124-04-9)
Octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate (CAS 2082-79-3)
Tris(2,4-ditert-butylphenyl) phosphite (CAS 31570-04-4)

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15.3 National regulations

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

15.4 International Regulations

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

Indication of changes:

Indication of changes		
Section	Changed item	Comments
3	Composition/information on ingredients	Modified
3.2	Comments	Modified
3.2	Comments (below composition)	Added
5.2	Hazardous decomposition products in case of fire	Modified
8.1	Occupational Exposure Limits	Added
10.6	Hazardous decomposition products	Modified
15.1	Regulatory information	Modified
16	Indication of changes	Modified

Abbreviations and acronyms:

	N/D = not available
	N/A = not applicable
ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CAS-No.	Chemical Abstract Service number
EC50	Effective concentration for 50 percent of test population (median effective concentration)
GHS	Globally Harmonized System of Classification and Labelling of Chemicals.
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
IOELV	Indicative Occupational Exposure Limit Value

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Abbreviations and acronyms:	
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)
LD50	Lethal dose for 50 percent of test population (median lethal dose)
LOAEC	Lowest Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
NIOSH	The National Institute for Occupational Safety and Health
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organization for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways
SDS	Safety Data Sheet
STP	Sewage treatment plant
TRGS	Technical Rules for Hazardous Substances
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative

- Data sources : The regulatory information given in this part only indicate the principal regulations specifically applicable to the product described in the Safety Data Sheet. This Safety Data Sheet has been established in accordance with GHS Regulation.
- Training advice : Provide adequate training to professional operators for the use of PPEs, according to the information contained in this Safety Data Sheet. Normal use of this product shall imply use in accordance with the instructions on the packaging.
- Other information : Do not use the product for any purposes that have not been advised by the manufacturer.

Full text of H-statements:	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), USA