

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024) Issue date: 5/6/2025 Version: 1.0

SECTION 1 Identification		
1.1. Product identifier		
Product form Trade name	: Mixture : Armstrong A-12T B	
1.2. Other means of identification	1	
No additional information available		
1.3. Recommended use of the ch	emical and restrictions on use	
Recommended use Restrictions on use	: Epoxy hardener : Product for industrial use only	
1.4. Supplier's details		
ResinLab, LLC		

Resincad, LLC N109 W13300 Ellsworth Drive Germantown, WI 53022 - United States T:1-877-259-1669

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1.5. Emergency phone number

Emergency number

: CHEMTREC:1-800-424-9300 (USA); +1 703-527-3887 (International)

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 1 Skin sensitization, Category 1

Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US)

Signal word (GHS US) Hazard statements (GHS US)

Precautionary statements (GHS US)

H315

H318

H317

- : Danger
 - H315 Causes skin irritation
 - H317 May cause an allergic skin reaction
 - H318 Causes serious eye damage
- : P261 Avoid breathing dust, fume, gas, mist, vapors, spray.
 - P264 Wash hands, forearms and face thoroughly after handling.
 - P272 Contaminated work clothing must not be allowed out of the workplace.
- P280 Wear protective gloves.
- P302+P352 If on skin: Wash with plenty of water.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

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contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a poison center or doctor.
P333+P313 - If skin irritation or rash occurs: Get medical advice or attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

No additional information available

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Polyamide Resin	CAS-No.: 68410-23-1	50 – 75
aluminum oxide	CAS-No.: 1344-28-1	30 – 50
Triethylenetetramine	CAS-No.: 112-24-3	1 – 5
Titanium dioxide	CAS-No.: 13463-67-7	1 – 5
carbon black	CAS-No.: 1333-86-4	< 0.1

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures 4.1. Description of necessary first-aid measures First-aid measures general : If you feel unwell, seek medical advice. First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing. · First-aid measures after skin contact Rinse immediately with plenty of water for 15 minutes. Take off contaminated clothing. If skin : irritation or rash occurs: Get medical advice/attention. First-aid measures after eye contact : Immediately rinse with plenty of water (for at least 15 minutes). Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. First-aid measures after ingestion : Do not induce vomiting. If swallowed then seek immediate medical assistance. 4.2. Most important symptoms/effects, acute and delayed Symptoms/effects after inhalation : None under normal conditions. Irritation. May cause an allergic skin reaction. Symptoms/effects after skin contact Symptoms/effects after eye contact Serious damage to eyes. Symptoms/effects after ingestion None under normal conditions.

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4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment

: Treat symptomatically.

SECTION 5: Fire-fighting measures		
5.1. Suitable (and unsuitable) extinguishing	ı media	
Suitable extinguishing media Unsuitable extinguishing media	Water spray. Dry powder. Foam. Carbon dioxide.Do not use a heavy water stream.	
5.2. Specific hazards arising from the chemical		
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 No fire hazard. No direct explosion hazard. Toxic fumes may be released. Metal oxides. Nitrogen oxides. Hydrocarbons. Carbon oxides (CO, CO2). 	
5.3. Special protective equipment and preca	autions for fire-fighters	
Firefighting instructions Protection during firefighting	 Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. 	

SECTION 6 Accidental release measures		
6.1. Personal precautions, protect	ive equipment and emergency procedures	
General measures	: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.	
For non-emergency personnel		
Protective equipment	: Wear recommended personal protective equipment.	
Emergency procedures	 Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. 	
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	: Evacuate unnecessary personnel. Stop leak if safe to do so.	
Environmental precautions	: Avoid release to the environment.	
6.2. Methods and materials for containment and cleaning up		
For containment	: Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.	
Methods for cleaning up	: Take up liquid spill into absorbent material.	
Other information	: Dispose of materials or solid residues at an authorized site.	

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	: Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace. Use only with adequate ventilation. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
Additional hazards when processed	: Contains a component(s) that is encapsulated within the product and not expected to be released during normal processing conditions or a foreseeable emergency. Do not breathe dust created by sanding, grinding or machining.
7.2. Conditions for safe storage, including incompatibilities	
Technical measures Storage conditions Packaging materials	 Keep in a cool, well-ventilated place away from heat. Keep cool. Protect from sunlight. Store always product in container of same material as original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Triethylenetetramine (112-24-3)	
USA - AIHA - Occupational Exposure Limits	
WEEL TWA	1 ppm (skin)
Titanium dioxide (13463-67-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Titanium dioxide
Remark (ACGIH)	TLV® Basis: LRT irr; pneumoconiosis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Titanium dioxide (Total dust)
OSHA PEL TWA	15 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
carbon black (1333-86-4)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Carbon black
ACGIH OEL TWA	3 mg/m³ (Inhalable fraction)
Remark (ACGIH)	TLV® Basis: Bronchitis. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Carbon black
OSHA PEL TWA	3.5 mg/m ³

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carbon black (1333-86-4)			
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
aluminum oxide (1344-28-1)			
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA	1 mg/m³ (Respirable fraction)		
USA - OSHA - Occupational Exposure Limits	USA - OSHA - Occupational Exposure Limits		
Local name	alpha-Alumina		
OSHA PEL TWA	15 mg/m³ (Total dust) 5 mg/m³ (Respirable fraction)		
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1		
8.2. Appropriate engineering controls			
	Ensure good ventilation of the work station, ventilate curing ovens to prevent emissions in the workplace.		
Environmental exposure controls :	Avoid release to the environment.		
8.3. Individual protection measures, such as p	ersonal protective equipment		
Personal protective equipment: Wear recommended personal protective equipment.			
Hand protection:			
Protective gloves			
Eye protection:			
Safety glasses with side shields			
Skin and body protection:			
Wear suitable protective clothing			
Respiratory protection:			
In case of insufficient ventilation, wear suitable respiratory equipment			
Personal protective equipment symbol(s):			



SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properti	es
Physical state Appearance	: Liquid : Paste.
Color	: Light gray
Odor	: Ammonia-like
Odor threshold	: No data available
рН	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available

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Flash point	: > 180 °C
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 1.31 g/cm ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosion limits	: No data available
Particle characteristics	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

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

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Oxidizing agents. Strong acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11 Toxicological information

11.1. Information on toxicological effects	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified Not classified
Polyamide Resin (68410-23-1)	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))

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Triethylenetetramine (112-24-3)		
LD50 oral rat	1716 mg/kg body weight (BASF test, Rat, Experimental value, Oral)	
LD50 dermal rabbit	1465 mg/kg body weight (BASF test, Rabbit, Experimental value, Dermal)	
ATE US (oral)	1716 mg/kg body weight	
ATE US (dermal)	1465 mg/kg body weight	
Titanium dioxide (13463-67-7)		
LD50 oral rat	> 5000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s))	
LC50 Inhalation - Rat	5.09 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Experimental value, Inhalation (dust), 14 day(s))	
ATE US (vapors)	5.09 mg/l/4h	
ATE US (dust, mist)	5.09 mg/l/4h	
carbon black (1333-86-4)		
LD50 oral rat	> 10000 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 28 day(s))	
LD50 dermal rabbit	> 8000 mg/kg Source: ECHA	
aluminum oxide (1344-28-1)		
LD50 oral rat	> 15900 mg/kg body weight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))	
LC50 Inhalation - Rat	> 2.3 mg/l air (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 14 day(s))	
LC50 Inhalation - Rat (Dust/Mist)	> 2.3 mg/l Source: ECHA	
Skin corrosion/irritation :	Causes skin irritation.	
Polyamide Resin (68410-23-1)		
рН	11.08 Temp.: 25 °C Concentration: 1 vol%	
Triethylenetetramine (112-24-3)		
рН	10.7	
Titanium dioxide (13463-67-7)		
рН	≈7	
carbon black (1333-86-4)		
рН	4 – 10 (5 %, 20 °C)	
aluminum oxide (1344-28-1)	·	
pH	9 – 10.5 (aqueous suspension, 33 %)	
Serious eye damage/irritation : Causes serious eye damage.		
Polyamide Resin (68410-23-1)		
рН	11.08 Temp.: 25 °C Concentration: 1 vol%	
Triethylenetetramine (112-24-3)	Triethylenetetramine (112-24-3)	
рН	10.7	
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Titanium dioxide (13463-67-7)	
pH	≈7
carbon black (1333-86-4)	
pH	4 – 10 (5 %, 20 °C)
aluminum oxide (1344-28-1)	
pH	9 – 10.5 (aqueous suspension, 33 %)
	May cause an allergic skin reaction. Not classified
Germ cell mutagenicity	Not classified
- 3 ,	Not classified
Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans
carbon black (1333-86-4)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity :	Not classified
aluminum oxide (1344-28-1)	
NOAEL (animal/male, F0/P)	1000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422
	(Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity
STOT-single exposure :	Screening Test) Not classified
	Not classified
Polyamide Resin (68410-23-1)	
NOAEL (oral,rat,90 days)	1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated
	Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
carbon black (1333-86-4)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.0071 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (oral,rat,90 days)	> 1000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)
NOAEC (inhalation,rat,dust/mist/fume,90 days)	0.0011 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
aluminum oxide (1344-28-1)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.015 mg/l air Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)
NOAEC (inhalation,rat,dust/mist/fume,90 days)	0.07 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90- Day Study)
Aspiration hazard :	Not classified
Polyamide Resin (68410-23-1)	
Viscosity	412371.134 mm²/s
Triethylenetetramine (112-24-3)	
Viscosity	No data available in the literature

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Polyamide Resin (68410-23-1)			
Titanium dioxide (13463-67-7)			
Viscosity Not applicable (solid)			
carbon black (1333-86-4)			
Viscosity	Not applicable		
aluminum oxide (1344-28-1)			
Viscosity	Not applicable (solid)		
Symptoms/effects after inhalation	: None under normal conditions.		
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction.		
Symptoms/effects after eye contact	Serious damage to eyes.		
Symptoms/effects after ingestion	: None under normal conditions.		

SECTION 12 Ecological information		
12.1. Ecotoxicity		
Ecology - water : Hazardous to the aquatic environment, short-term : (acute)	Very toxic to aquatic life with long lasting effects. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Toxic to aquatic life. Very toxic to aquatic life with long lasting effects.	
Polyamide Resin (68410-23-1)		
LC50 - Fish [1]	7.07 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 - Crustacea [1]	5.18 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	4.11 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
Triethylenetetramine (112-24-3)		
LC50 - Fish [1]	495 mg/l (96 h, Pimephales promelas, Fresh water, Literature study)	
EC50 - Crustacea [1]	31.1 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Literature study)	
Titanium dioxide (13463-67-7)		
LC50 - Fish [1]	> 300 mg/l (Danio rerio, Fresh water, Literature study, Nominal concentration)	
EC50 - Crustacea [1]	19.3 mg/l Test organisms (species): Daphnia magna	
EC50 - Other aquatic organisms [1]	> 100 mg/l Test organisms (species):	
EC50 - Crustacea [2]	27.8 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
LOEC (chronic)	5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	≥ 2.92 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
carbon black (1333-86-4)		
LC50 - Fish [1]	> 1000 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal)	

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carbon black (1333-86-4)	
EC50 - Crustacea [1]	> 5600 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
EC50 72h - Algae [1]	> 10000 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	> 10000 mg/l Test organisms (species):
ErC50 algae	> 10000 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration)
aluminum oxide (1344-28-1)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l (48 h, Daphnia magna, Literature study)
EC50 72h - Algae [1]	1.05 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	> 0.024 mg/l Source: ECHA

12.2. Persistence and degradability

Armstrong A-12T B		
Persistence and degradability	Not rapidly degradable	
Polyamide Resin (68410-23-1)		
Persistence and degradability	Not rapidly degradable	
Triethylenetetramine (112-24-3)		
Persistence and degradability	Not readily biodegradable in water.	
Titanium dioxide (13463-67-7)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
carbon black (1333-86-4)		
Persistence and degradability	Biodegradability in soil: not applicable, Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
aluminum oxide (1344-28-1)		
Persistence and degradability	Biodegradability: not applicable.	
Chemical oxygen demand (COD)	Not applicable (inorganic)	
ThOD	Not applicable (inorganic)	
BOD (% of ThOD)	Not applicable	

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12.3. Bioaccumulative potential		
Triethylenetetramine (112-24-3)		
Partition coefficient n-octanol/water (Log Pow)	-2.65 (Estimated value, KOWWIN)	
Bioaccumulative potential	Not bioaccumulative.	
Titanium dioxide (13463-67-7)		
Bioaccumulative potential	Not bioaccumulative.	
carbon black (1333-86-4)		
Bioaccumulative potential	Not bioaccumulative.	
aluminum oxide (1344-28-1)		
Bioaccumulative potential	Not bioaccumulative.	
12.4 Mobility in soil		

12.4. Mobility in soil

Triethylenetetramine (112-24-3)			
Surface tension	No data available in the literature		
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1.885 (log Koc, SRC PCKOCWIN v2.0, Calculated value)		
Ecology - soil	Highly mobile in soil.		
Titanium dioxide (13463-67-7)			
Surface tension	No data available in the literature		
Ecology - soil	Low potential for mobility in soil.		
carbon black (1333-86-4)			
Surface tension	Not applicable (solid)		
Ecology - soil	No (test)data on mobility of the substance available. Not toxic to plants. Not toxic to animals.		
aluminum oxide (1344-28-1)			
Surface tension	No data available in the literature		
Ecology - soil	No (test)data on mobility of the substance available.		
12.5. Other adverse effects			
Ozone :	Not classified		

: No

 SECTION 13 Disposal considerations

 Regional waste regulation
 : Disposal must be done according to official regulations.

 Waste treatment methods
 : Dispose of contents/container in accordance with licensed collector's sorting instructions.

 Sewage disposal recommendations
 : Disposal must be done according to official regulations.

 Product/Packaging disposal recommendations
 : Disposal must be done according to official regulations.

 Additional information
 : Do not re-use empty containers.

SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

Fluorinated greenhouse gases

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14.1. UN number	
UN-No. (DOT)	: Not regulated
UN-No. (IMDG)	: 3082
UN-No. (IATA)	: 3082
14.2. UN Proper Shipping Name	
Proper Shipping Name (DOT)	: Not regulated
Proper Shipping Name (IMDG) Proper Shipping Name (IATA)	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Polyamide Resin) : Environmentally hazardous substance, liquid, n.o.s. (Polyamide Resin)
14.3. Transport hazard class(es)	
DOT Transport hazard class(es) (DOT)	: Not regulated
IMDG	
Transport hazard class(es) (IMDG) Hazard labels (IMDG)	: 9 : 9
	· · ·
IATA Transport hazard class(es) (IATA)	: 9
Hazard labels (IATA)	: 9
14.4. Packing group	
Packing group (DOT)	: Not regulated
Packing group (IMDG)	
Packing group (IATA)	: 11
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant	: Yes : Yes
Other information	: No supplementary information available.
14.6. Transport in bulk	
Not applicable	
14.7. Special precautions for user	
DOT Not regulated	
IMDG	074 005 000
Special provision (IMDG)	: 274, 335, 969
	EN (Essibel 10) 42/45

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Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) Packing provisions (IMDG) IBC packing instructions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	 5 L E1 LP01, P001 PP1 IBC03 T4 TP1, TP29 F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS A
IATA Special provision (IATA) PCA Excepted quantities (IATA) PCA Limited quantities (IATA) PCA limited quantity max net quantity (IATA) PCA packing instructions (IATA) PCA max net quantity (IATA) CAO packing instructions (IATA) CAO max net quantity (IATA)	 A97, A158, A197, A215 E1 Y964 30kgG 964 450L 964 450L 964 450L

SECTION 15 Regulatory information

15.1. Federal regulations

ERG code (IATA)

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

: 9L

Name	CAS-No.	Listing	Commercial status	Flags
Polyamide Resin	68410-23-1	Present	Active	XU
Triethylenetetramine	112-24-3	Present	Active	
Titanium dioxide	13463-67-7	Present	Active	
carbon black	1333-86-4	Present	Active	
aluminum oxide	1344-28-1	Present	Active	

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

aluminum oxide	CAS-No. 1344-28-1	30 – 50%
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15.2. International regulations

CANADA

Polyamide Resin (68410-23-1)

Listed on the Canadian DSL (Domestic Substances List)

Triethylenetetramine (112-24-3)

Listed on the Canadian DSL (Domestic Substances List)

Titanium dioxide (13463-67-7)

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carbon black (1333-86-4)

Listed on the Canadian DSL (Domestic Substances List)

aluminum oxide (1344-28-1)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Triethylenetetramine (112-24-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Titanium dioxide (13463-67-7)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

carbon black (1333-86-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

aluminum oxide (1344-28-1)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Polyamide Resin (68410-23-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Triethylenetetramine (112-24-3)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Titanium dioxide (13463-67-7)

Listed on IARC (International Agency for Research on Cancer) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024)

carbon black (1333-86-4)

Listed on IARC (International Agency for Research on Cancer)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

aluminum oxide (1344-28-1)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

15.3. State regulations

This product can expose you to Carbon black (airborne, unbound particles of respirable size), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	State or local regulations
Triethylenetetramine(112-24-3)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
Titanium dioxide(13463-67-7)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
carbon black(1333-86-4)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List
aluminum oxide(1344-28-1)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS 2024) Issue date : 5/6/2025

Full text of hazard classes and H-statements	
H315 Causes skin irritation	
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.