

Safety Data Sheet

according to 29 CFR 1910.1200(g)

CONOSTAN Custom Blend Multi-Element Standard S-21+In+W:100 ppm

Revision date: 01/12/2026

Product code: AC18.04848

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1. Identification

Product identifier

CONOSTAN Custom Blend Multi-Element Standard S-21+In+W:100 ppm

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Reagents and laboratory chemicals
Only for laboratory and analysis purposes.

Uses advised against

Do not use for private purposes (household).

Details of the supplier of the safety data sheet

Details of the supplier of the safety data sheet

Company name: AnalytiChem Services, Unipessoal, Lda
Street: Rua de Júlio Dinis 676 7º
Place: P-4050-320 Porto
Telephone: +351 226002917
E-mail: info@analytichem.com
Contact person: SDS service department
E-mail: SDS@analytichem.com
Internet: www.analytichem.com
Responsible Department: SDS service department

Supplier or manufacturer details

Company name: AnalytiChem Canada Inc.
Street: Québec, CANADA
Place: 21800 Clark Graham Ave
CDN-H9X 4B6 Baie-D'Urfé
Telephone: +1 (800) 361-6820
E-mail: info@analytichem.com
Contact person: SDS service department
E-mail: SDS@analytichem.com
Internet: www.analytichem.com
Responsible Department: AnalytiChem:
EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20
EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200
EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848
UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500
USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378
Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701
Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333
Telefax: +1 (800) 253-5549

Emergency phone number:

+1 703-741-5970 (CHEMTREC)

Further Information

No data available

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2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

This mixture is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

Label elements

Hazards not otherwise classified

No data available

3. Composition/information on ingredients

Mixtures

Relevant ingredients

CAS No	Components	Quantity
8042-47-5	White mineral oil, petroleum	99.77 %
7440-62-2	vanadium	0.01 %
7440-42-8	Boron	0.01 %
7440-74-6	Indium	0.01 %
7440-66-6	zinc	0.01 %
7429-90-5	Aluminium	0.01 %
-	Lead compounds	0.01 %
7440-33-7	tungsten	0.01 %
7440-70-2	calcium	0.01 %
7440-39-3	Barium	0.01 %
7723-14-0	Phosphorus	0.01 %
7440-47-3	chromium	0.01 %
7440-50-8	copper	0.01 %
7439-89-6	iron	0.01 %
7439-95-4	Magnesium	0.01 %
7439-96-5	manganese	0.01 %
7439-98-7	molybdenum	0.01 %
7440-02-0	nickel	0.01 %
7440-21-3	silicon, containing more than 99.99 per cent by weight of silicon	0.01 %
7440-23-5	sodium	0.01 %
7440-31-5	tin	0.01 %
7440-32-6	titanium	0.01 %
7440-43-9	cadmium	0.01 %

Further Information

No data available

4. First-aid measures

Description of first aid measures

General information

No data available

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After inhalation

Provide fresh air.
Call a doctor if you feel unwell.

After contact with skin

Wash immediately with: Water, Soap
Take off immediately all contaminated clothing and wash it before reuse.
In case of skin irritation, consult a physician.

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.
Remove contact lenses, if present and easy to do. Continue rinsing.
In case of eye irritation consult an ophthalmologist.

After ingestion

Observe risk of aspiration if vomiting occurs.
Call a physician immediately.

Most important symptoms and effects, both acute and delayed

Gastrointestinal complaints
Pneumonia
Vapors may cause drowsiness and dizziness.
Dizziness
Depression of central nervous system
Headache

Indication of any immediate medical attention and special treatment needed

No data available

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Foam
Carbon dioxide (CO₂)
Extinguishing powder
Water

Unsuitable extinguishing media

no restriction

Specific hazards arising from the chemical

Combustible liquids
Hazardous combustion products
In case of fire may be liberated:
Carbon dioxide (CO₂)
Carbon monoxide
In case of warming:
Vapors are heavier than air, spread along floors and form explosive mixtures with air.

Special protective equipment and precautions for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.
Use water spray jet to protect personnel and to cool endangered containers.
Move undamaged containers from immediate hazard area if it can be done safely.

6. Accidental release measures

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Personal precautions, protective equipment and emergency procedures

General advice

In case of warming:
Vapors are heavier than air, spread along floors and form explosive mixtures with air.
Take precautionary measures against static discharges.

For non-emergency personnel

Provide adequate ventilation.
Use personal protection equipment.
Avoid contact with skin, eyes and clothes.
Remove persons to safety.
Emergency procedures
Consult an expert
Do not breathe dust/fume/gas/mist/vapors/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment (PPE): see section 8

Environmental precautions

Do not allow to enter into surface water or drains.

Methods and material for containment and cleaning up

For containment

Cover drains.
Prevent spread over a wide area (e.g. by containment or oil barriers).
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
Collect in closed and suitable containers for disposal.

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wear breathing apparatus if exposed to vapors/dusts/aerosols.

Reference to other sections

Safe handling: see section 7
Personal protection equipment (PPE): see section 8
Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Read label before use. Handle and open container with care.
When using do not eat, drink, smoke, sniff. Keep container tightly closed.
Use personal protection equipment. Use extractor hood (laboratory).
Do not breathe vapor or spray.
Provide adequate ventilation.

Advice on protection against fire and explosion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Take precautionary measures against static discharges.
In case of warming:
Vapors are heavier than air, spread along floors and form explosive mixtures with air.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

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The choice of body protection depends on the concentration and quantity of hazardous substances. The chemical resistance of the protective agents should be clarified with their suppliers.

Further information on handling

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

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed.

Hints on joint storage

National regulations

Further information on storage conditions

Keep cool. Protect from sunlight.

8. Exposure controls/personal protection

Control parameters

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Exposure limits

CAS No	Substance	ppm	mg/m ³	Category	Origin
7429-90-5	Aluminum (total)	-	10	TWA (8 h)	REL
7429-90-5	Aluminum Metal (as Al) Respirable fraction	-	5	TWA (8 h)	PEL
7429-90-5	Aluminum metal (respirable fraction)	-	1	TWA (8 h)	ACGIH-2025
7440-39-3	Barium, soluble compounds (as Ba)	-	0.5	TWA (8 h)	PEL
7440-39-3	Barium	-	0.5	TWA (8 h)	ACGIH-2025
7440-43-9	Cadmium (as Cd)	-	0.005	TWA (8 h)	PEL
7440-43-9	Cadmium (total particulate)	-	0.01	TWA (8 h)	ACGIH-2025
7440-43-9	Cadmium dust (as Cd)	-	-	as low as possible	REL
7440-47-3	Chromium (II) compounds (as Cr)	-	0.5	TWA (8 h)	PEL
7440-47-3	Chromium metal	-	0.5	TWA (8 h)	REL
7440-47-3	Chromium: Metallic chromium, as Cr(0) (inhalable particulate matter)	-	0.5	TWA (8 h)	ACGIH-2025
7440-50-8	Copper (dusts and mists, as Cu)	-	1	TWA (8 h)	REL
7440-50-8	Copper Dusts and mists (as Cu)	-	1	TWA (8 h)	PEL
7440-50-8	Copper dusts and mists, as Cu	-	1	TWA (8 h)	ACGIH-2025
7440-74-6	Indium	-	0.1	TWA (8 h)	REL
		-	0.1	TWA (8 h)	ACGIH-2025
7439-96-5	Manganese compounds (as Mn)	-	C 5	Ceiling	PEL
7439-96-5	Manganese compounds and fume (as Mn)	-	1	TWA (8 h)	REL
		-	3	STEL (15 min)	REL
7439-96-5	Manganese elemental (respirable fraction)	-	0.02	TWA (8 h)	ACGIH-2025
-	Mineral oil, excluding metal working fluids (inhalable fraction); Pure, highly and severely refined	-	5	TWA (8 h)	ACGIH-2025
7439-98-7	Molybdenum (as Mo) Insoluble Compounds Total dust	-	15	TWA (8 h)	PEL
7439-98-7	Molybdenum metal (inhalable fraction)	-	10	TWA (8 h)	ACGIH-2025
7440-02-0	Nickel elemental (inhalable fraction)	-	1.5	TWA (8 h)	ACGIH-2025
7440-02-0	Nickel metal and other compounds (as Ni)	0.015	-	TWA (8 h)	REL
7440-02-0	Nickel, metal and insoluble compounds (as Ni)	-	1	TWA (8 h)	PEL
8012-95-1	Oil mist (mineral)	-	5	TWA (8 h)	REL
		-	10	STEL (15 min)	REL
8012-95-1	Oil mist, mineral	-	5	TWA (8 h)	PEL
7723-14-0	Phosphorus (yellow)	-	0.1	TWA (8 h)	PEL
		-	0.1	TWA (8 h)	REL
7440-21-3	Silicon (total)	-	10	TWA (8 h)	REL
7440-21-3	Silicon Respirable fraction	-	5	TWA (8 h)	PEL
7440-31-5	Tin metal (inhalable particulate matter)	-	2	TWA (8 h)	ACGIH-2025
7440-31-5	Tin, inorganic compounds (except oxides) (as Sn)	-	2	TWA (8 h)	PEL

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7440-31-5	Tin	-	2	TWA (8 h)	REL
7440-33-7	Tungsten metal (respirable particulate matter)	-	3	TWA (8 h)	ACGIH-2025
7440-33-7	Tungsten	-	5	TWA (8 h)	REL
		-	10	STEL (15 min)	REL

Biological Exposure Indices (BEI-ACGIH)

CAS No	Substance	Determinant	Value	Test material	Sampling time
7440-74-6	INDIUM	Indium	1 µg/L	serum or plasma	Not critical
7440-02-0	NICKEL	Nickel	5 µg/L	urine	Post-shift at end of workweek
7440-43-9	CADMIUM	Cadmium (creatinine)	5 µg/g	urine	Not critical

Additional advice on limit values

Observe in addition any national regulations!

Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Face protection umbrella

Hand protection

Tested protective gloves must be worn

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

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

Wash hands and face before breaks and after work and take a shower if necessary.

Draw up and observe skin protection programme.

Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

Thermal hazards

No data available

Environmental exposure controls

Do not allow to enter into surface water or drains.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:

Liquid

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Color:	clear	
Odor:	like: Hydrocarbons	
Odour threshold:	No data available	
Melting point/freezing point:		No data available
Boiling point or initial boiling point and boiling range:		218-800 (424.4-1472°F) °C
Flammability:		No data available
Lower explosion limits:		No data available
Upper explosion limits:		No data available
Flash point:		No data available
Auto-ignition temperature:		No data available
Decomposition temperature:		No data available
pH-Value:		No data available
Viscosity / kinematic:		No data available
Water solubility:		No data available
Solubility in other solvents		No data available
Dissolution rate:		No data available
Partition coefficient n-octanol/water:		No data available
Dispersion stability:		No data available
Vapor pressure:		No data available
Density:		No data available
Relative density:		No data available
Bulk density:		No data available
Relative vapour density:		No data available
Particle characteristics:		No data available

Other information

Information with regard to physical hazard classes

Explosive properties

In case of warming:

Vapors are heavier than air, spread along floors and form explosive mixtures with air.

Sustained combustibility:

No data available

Self-ignition temperature

Solid:

No data available

Gas:

No data available

Oxidizing properties

No data available

Other safety characteristics

Evaporation rate:

No data available

Solvent separation test:

No data available

Solvent content:

No data available

Solid content:

No data available

Sublimation point:

No data available

Softening point:

No data available

Pour point:

No data available

Viscosity / dynamic:

No data available

Flow time:

No data available

Further Information

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No data available

10. Stability and reactivity

Reactivity

In case of warming:

Vapours may form explosive mixtures with air.

Chemical stability

The product is stable under storage at normal ambient temperatures.

Possibility of hazardous reactions

Oxidising agent

Conditions to avoid

Heat

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Incompatible materials

No data available

Hazardous decomposition products

in case of fire, see:

SECTION 5: Fire fighting measures

Further information

No data available

11. Toxicological information

Route(s) of Entry

No data available

Information on toxicological effects

Toxicokinetics, metabolism and distribution

No data available

Acute toxicity

Based on available data, the classification criteria are not met.

ATEmix calculated

ATE (oral) > 5000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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CAS No	Components				
	Exposure route	Dose	Species	Source	Method
8042-47-5	White mineral oil, petroleum				
	oral	LD50 > 5000 mg/kg	Rat	Study report (1987)	OECD Guideline 401
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1987)	OECD Guideline 402
7440-42-8	Boron				
	oral	ATE 500 mg/kg			
-	Lead compounds				
	oral	ATE 500 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
7440-39-3	Barium				
	oral	ATE 100 mg/kg			
7440-23-5	sodium				
	oral	LD50 2800 mg/kg	Rat	Study report (1978)	Groups of 5 male and 5 female rats were
	dermal	LD50 > 2000 mg/kg	Rabbit	Study report (1978)	other: EPA 16 CFR 1500.40
7440-31-5	tin				
	oral	LD50 > 2000 mg/kg	Rat	Study report (2009)	OECD Guideline 423
	dermal	LD50 > 2000 mg/kg	Rat	Study report (2009)	OECD Guideline 402
	inhalation (4 h) dust/mist	LC50 > 4,75 mg/l	Rat	Study report (2009)	OECD Guideline 403
7440-43-9	cadmium				
	inhalation vapour	ATE 0,5 mg/l			
	inhalation dust/mist	ATE 0,05 mg/l			

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitizing effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

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Carcinogenicity (OSHA): Cadmium (CAS 7440-43-9) is listed.
 Carcinogenicity (IARC): Chromium, metallic (CAS 7440-47-3) is listed in group 3. Metallic Nickel (CAS 7440-02-0) is listed in group 2B. Cadmium (CAS 7440-43-9) is listed in group 1.
 Carcinogenicity (NTP): Metallic Nickel (CAS 7440-02-0) is listed in group RAHC. Cadmium (CAS 7440-43-9) is listed in group Known.

Aspiration hazard

Based on available data, the classification criteria are not met.

Specific effects in experiment on an animal

No data available

Additional information on tests

There is no reliable information on carcinogenicity, mutagenicity, target organ toxicity or developmental toxicity.

Practical experience

No data available

Information on other hazards

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other information

No data available

Further information

Gastrointestinal complaints
 Pneumonia
 Vapors may cause drowsiness and dizziness.
 Dizziness
 Depression of central nervous system
 Headache

12. Ecological information

Persistence and degradability

No data available

Mobility in soil

No data available

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

Do not allow to enter into surface water or drains.

Further information

Avoid release to the environment.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Send to a physico-chemical treatment facility under observation of official regulations.
 Do not allow to enter into surface water or drains.
 Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

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14. Transport information

U.S. DOT 49 CFR 172.101

Proper shipping name: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

UN number or ID number: No dangerous good in sense of this transport regulation.

UN proper shipping name: No dangerous good in sense of this transport regulation.

Transport hazard class(es): No dangerous good in sense of this transport regulation.

Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number: No dangerous good in sense of this transport regulation.

UN proper shipping name: No dangerous good in sense of this transport regulation.

Transport hazard class(es): No dangerous good in sense of this transport regulation.

Packing group: No dangerous good in sense of this transport regulation.

Special precautions for user

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

15. Regulatory information

U.S. Regulations

National regulatory information

SARA Section 302 Extremely hazardous substances:

Phosphorus (yellow or white) (7723-14-0): Reportable quantity = 1 lbs., Threshold planning quantity = 100 lbs.

SARA Section 304 CERCLA:

Zinc (fume or dust) (7440-66-6): Reportable quantity = 1,000 (454) lbs. (kg)

Barium (7440-39-3): Reportable quantity = 1,000 (454) lbs. (kg)

Phosphorus (yellow or white) (7723-14-0): Reportable quantity = 1 (0.454) lbs. (kg)

Chromium (7440-47-3): Reportable quantity = 5,000 (2270) lbs. (kg)

Copper (7440-50-8): Reportable quantity = 5,000 (2270) lbs. (kg)

Nickel (7440-02-0): Reportable quantity = 100 (45.4) lbs. (kg)

Sodium (7440-23-5): Reportable quantity = 10 (4.54) lbs. (kg)

Cadmium (7440-43-9): Reportable quantity = 10 (4.54) lbs. (kg)

SARA Section 311/312 Hazards:

Boron (7440-42-8): Immediate (acute) health hazard

Lead compounds (-): Immediate (acute) health hazard, Delayed (chronic) health hazard

calcium (7440-70-2): Reactive

Barium (7440-39-3): Fire hazard, Reactive, Immediate (acute) health hazard

Phosphorus (yellow or white) (7723-14-0): Fire hazard

iron (7439-89-6): Fire hazard

Magnesium (7439-95-4): Fire hazard, Reactive

Manganese (7439-96-5): Fire hazard

Nickel (7440-02-0): Delayed (chronic) health hazard, Immediate (acute) health hazard

silicon, containing more than 99.99 per cent by weight of silicon (7440-21-3): Fire hazard

Sodium (7440-23-5): Reactive, Immediate (acute) health hazard

titanium (7440-32-6): Fire hazard

Cadmium (7440-43-9): Delayed (chronic) health hazard, Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:

Vanadium (except when contained in an alloy) (7440-62-2): De minimis limit = 1.0 %, Reportable threshold = Standard

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Zinc (fume or dust) (7440-66-6): De minimis limit = 1.0 %, Reportable threshold = Standard
 Aluminum (fume or dust) (7429-90-5): De minimis limit = 1.0 %, Reportable threshold = Standard
 Barium (7440-39-3): De minimis limit = 1.0 %, Reportable threshold = Standard
 Phosphorus (yellow or white) (7723-14-0): De minimis limit = 1.0 %, Reportable threshold = Standard
 Chromium (7440-47-3): De minimis limit = 1.0 %, Reportable threshold = Standard
 Copper (7440-50-8): De minimis limit = 1.0 %, Reportable threshold = Standard
 Manganese (7439-96-5): De minimis limit = 1.0 %, Reportable threshold = Standard
 Nickel (7440-02-0): De minimis limit = 0.1 %, Reportable threshold = Standard
 Cadmium (7440-43-9): De minimis limit = 0.1 %, Reportable threshold = Standard
 Clean Air Act Section 112(b):
 Phosphorus (yellow or white) (7723-14-0), Chromium (7440-47-3), Manganese (7439-96-5), Nickel (7440-02-0),
 Cadmium (7440-43-9)

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Lead compounds (cancer); Nickel (Metallic) (cancer); Cadmium (cancer, developmental, reproductive), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. Other information

Changes

Revision date: 01/12/2026

Revision No: 1,01

This data sheet contains changes from the previous version in section(s): 1,9,11.

Other data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

Provide appropriate information, instructions and training to users.

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)