Safety Data Sheet (SDS) according to OSHA-GHS (29CFR1910.1200HCS2012) (US)
antifreeze Article number 22270, 22268, 05011, 01089, 31276, 77089, 80933

Date printed 15.03.2023, Revision 15.03.2023

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Version 12.0 Page 1 / 15

SECTION 1: Identification of the substance/mixture and of the company/undertaking		
1.1 Product identifier		
		antifreeze Article number: 22270, 22268, 05011, 01089, 31276, 77089, 80933
1.2	Relevant identified uses of the se	ubstance or mixture and uses advised against
1.2.1	I Relevant uses	
		Anti-freezing agents
1.2.2	2 Uses advised against	
		None known.
1.3 Details of the supplier of the safety data sheet		ety data sheet
	Company	Ferdinand Bilstein GmbH + Co. KG Wilhelmstr. 47 58256 Ennepetal / GERMANY Phone +49 2333 911-0 Fax +49 2333 911-444 Homepage www.febi.com E-mail info@febi.com
	Address enquiries to	
	Technical information	info@febi.com
	Safety Data Sheet	info@febi.com
1.4	Emergency telephone number	
	Advisory body	+49 (0)89-19240 (24h) (English)
SEC	TION 2: Hazards identification	

2.1 Classification of the substance or mixture

Acute Tox. 4: H302 Harmful if swallowed. STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. Eye Irrit. 2: H319 Causes serious eye irritation. Repr. 2: H361d Suspected of damaging the unborn child.

Date printed 15.03.2023, Revision 15.03.2023

2.2 Label elements



Version 12.0

Page 2 / 15

	The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)
Hazard pictograms	
Signal word	WARNING
Contains:	Ethylene glycol, CAS: 107-21-1
	potassium 2-ethylhexanoate, CAS: 3164-85-0
Hazard statements	H302 Harmful if swallowed. H373 May cause damage to organs through prolonged or repeated exposure. H319 Causes serious eye irritation. H361d Suspected of damaging the unborn child.
Precautionary statements	<ul> <li>P101 If medical advice is needed, have product container or label at hand.</li> <li>P102 Keep out of reach of children.</li> <li>P260 Do not breathe vapors.</li> <li>P270 Do no eat, drink or smoke when using this product.</li> <li>P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.</li> <li>P314 Get medical advice/attention if you feel unwell.</li> <li>GHS.P501-2</li> <li>P280 Wear eye protection/face protection.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313 If eye irritation persists: Get medical advice/attention.</li> <li>P405 Store locked up.</li> </ul>
2 Other hereide	

#### 2.3 Other hazards

Environmental hazards	Does not contain any PBT or vPvB substances.
Other hazards	None
	This product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

# **SECTION 3: Composition / Information on ingredients**

#### 3.1 Substances

Not applicable

#### 3.2 Mixtures

#### The product is a mixture.

Bongo [9/]	Substance	
Range [%]	Substance	
90 - 95	Ethylene glycol	
	CAS: 107-21-1	
1 - < 2.5	potassium 2-ethylhexanoate	
	CAS: 3164-85-0	
< 0.1	1H-Indene-1,3(2H)-dione, 2-(2-quinolinyl)-, sulfonated, sodium salts	
	CAS: 95193-83-2	

Comment on component parts

All chemical substances in this material are included on or exempted from listing on the **IECSC** Inventory. Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.

For full text of H-statements and R-phrases: see SECTION 16.

Date printed 15.03.2023, Revision 15.03.2023

4.1	Description of first aid measures		
	General information	Change soaked clothing.	
	Inhalation	Ensure supply of fresh air. In the event of symptoms seek medical treatment.	
	Skin contact	In case of contact with skin wash off immediately with soap and water. Consult a doctor if skin irritation persists.	
	Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
	Ingestion	Consult a doctor immediately. Rinse out mouth and give plenty of water to drink. Do not induce vomiting.	
4.2	Most important symptoms and eff	fects, both acute and delayed	
		No information available.	
4.3	Indication of any immediate medi	cal attention and special treatment needed	
		If swallowed or in the event of vomiting, risk of product entering the lungs. Treat symptomatically. Forward this sheet to the doctor.	
SEC	TION 5: Fire-fighting measures		
5.1	Extinguishing media		
	Suitable extinguishing media	Foam, dry powder, water spray jet, carbon dioxide	
	Extinguishing media that must not be used	Full water jet	
5.2	Special hazards arising from the	substance or mixture	
		Risk of formation of toxic pyrolysis products. Carbon monoxide (CO)	
5.3	Advice for firefighters		
		Use self-contained breathing apparatus.	
		Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.	
SEC	TION 6: Accidental release measur	es	
6.1	5.1 Personal precautions, protective equipment and emergency procedures		
		High risk of slipping due to leakage/spillage of product. Forms slippery surfaces with water.	
6.2	Environmental precautions		
		Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater.	
6.3	Methods and material for contain	ment and cleaning up	
		Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth). Dispose of absorbed material in accordance within the regulations.	
6.4	Reference to other sections		
		See SECTION 8+13	



Version 12.0

Page 3 / 15

Date printed 15.03.2023, Revision 15.03.2023

Version 12.0 Page 4 / 15

7.1	Precautions for safe handling	
	, i i i i i i i i i i i i i i i i i i i	Use only in well-ventilated areas.
		Do not eat, drink or smoke when using this product.
		Use barrier skin cream.
		Wash hands before breaks and after work.
		Contaminated work clothing should not be allowed out of the workplace
		Take off contaminated clothing and wash before reuse.

Prevent penetration into the ground.

Do not store together with food and animal food/diet. Do not store together with oxidizing agents.

Keep container tightly closed. Keep container in a well-ventilated place. Protect from heat/overheating.

# 7.3 Specific end use(s)

See product use, SECTION 1.2

Date printed 15.03.2023, Revision 15.03.2023

	9
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Version 12.0

Page 5 / 15

# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

#### Ingredients with occupational exposure limits to be monitored (US)

b be monitored (US)	
Substance	
Ethylene glycol	
CAS: 107-21-1	
Long-term exposure: 20 ppm, 52 mg/m <sup>3</sup> , EU	
Short-term exposure (15-minute): 40 ppm, 104 mg/m <sup>3</sup>	

## DNEL

Substance
Ethylene glycol, CAS: 107-21-1
Industrial, dermal, Long-term - systemic effects, 106 mg/m <sup>3</sup>
Industrial, inhalative, Long-term - local effects, 35 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 53 mg/m <sup>3</sup>
general population, inhalative, Long-term - local effects, 7 mg/m <sup>3</sup>
potassium 2-ethylhexanoate, CAS: 3164-85-0
Industrial, dermal, Long-term - systemic effects, 5.95 mg/kg bw/d
Industrial, inhalative, Long-term - systemic effects, 32 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 2.5 mg/kg bw/d
general population, dermal, Long-term - systemic effects, 2.98 mg/kg bw/d
general population, inhalative, Long-term - systemic effects, 8 mg/m <sup>3</sup>

#### PNEC

Substance	
Ethylene glycol, CAS: 107-21-1	
freshwater, 10 mg/L	
seawater, 1 mg/L	
sediment (freshwater), 37 mg/kg	
soil, 1.53 mg/kg	
sewage treatment plants (STP), 199.5 mg/l (AF=10)	
sediment (seawater), 3.7 mg/kg	
potassium 2-ethylhexanoate, CAS: 3164-85-0	
soil, 1.06 mg/kg	
sediment (seawater), 637 µg/kg	
sediment (freshwater), 6.37 mg/kg	
sewage treatment plants (STP), 71.7 mg/L	
seawater, 36 µg/L	
freshwater, 360 µg/L	

Date printed 15.03.2023, Revision 15.03.2023

8.2

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Version 12.0 Page 6 / 15

Exposure controls	
Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	If there is a risk of splashing: safety glasses
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. > 0.4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3).
Skin protection	light protective clothing
	Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. Avoid contact with eyes and skin. Do not inhale vapors.
Respiratory protection	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter P2. (DIN EN 143)
Thermal hazards	None
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

# SECTION 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

internation on basic physical and	renemiear properties
Physical state	Liquid
Form	Liquid
Color	blue
Odor	mild
Odor threshold	Not applicable
pH-value	ca. 7.5 - 9 (50%)
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	> 100 (DIN 51758))
Flammability [°C]	No information available.
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidizing properties	No
Vapor pressure/gas pressure [kPa]	< 0.01 kPa (20°C)
Density [g/cm³]	ca. 1.12 (DIN 51 757) (20 °C / 68,0 °F)
Relative density	Not determined
Bulk density [kg/m³]	Not applicable
Solubility in water	Miscible
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	No information available.
Kinematic viscosity	No information available.
Relative vapour density	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Auto-ignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.
Particle characteristics	No information available.

Date printed 15.03.2023, Revision 15.03.2023

9.2 Other information

None

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No dangerous reactions known if used as directed.

#### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

#### 10.3 Possibility of hazardous reactions

Reactions with acids, alkalies and oxidizing agents.

#### 10.4 Conditions to avoid

See SECTION 7.2.

#### 10.5 Incompatible materials

Oxidizing agent Acids

#### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

Version 12.0 Page 7 / 15

Date printed 15.03.2023, Revision 15.03.2023

Version 12.0 Page 8 / 15

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Product

#### Acute oral toxicity

ATE-mix,	oral, 529	ma/ka	bw
	01ai, 523	iiig/kg	DW

Substance
Ethylene glycol, CAS: 107-21-1
LD50, oral, Rat, 7712 mg/kg bw
ATE, oral, 500 mg/kg (Acute Tox. 4)
potassium 2-ethylhexanoate, CAS: 3164-85-0
LD50, oral, Rat, 2043 mg/kg bw
1H-Indene-1,3(2H)-dione, 2-(2-quinolinyl)-, sulfonated, sodium salts, CAS: 95193-83-2
LD50, oral, Rat, > 2000 mg/kg bw

#### Acute dermal toxicity

Product

dermal, Based on the information available, the classification criteria have not been fulfilled.

Substance

Ethylene glycol, CAS: 107-21-1 LD50, dermal, mouse, > 3500 mg/kg bw

potassium 2-ethylhexanoate, CAS: 3164-85-0

LD50, dermal, Rabbit, 2000 mg/kg bw

#### Acute inhalational toxicity

Product

inhalative, Based on the information available, the classification criteria have not been fulfilled.

Substance	
Ethylene glycol, CAS: 107-21-1	
LC50, inhalative, Rat, > 2.5 mg/L air, 6h	
potassium 2-ethylhexanoate, CAS: 3164-85-0	
LC50, inhalative, Rat, 110 mg/m <sup>3</sup> (8 h)	

#### Serious eye damage/irritation

Toxicological data of complete product are not available. Irritant

Calculation method

Substance	
Ethylene glycol, CAS: 107-21-1	
Eye, Rabbit, In vivo	study, non-irritating
potassium 2-ethylh	xanoate, CAS: 3164-85-0
Eye, in vitro / ex viv	o, OECD 437, corrosive

#### Skin corrosion/irritation

Based on the information available, the classification criteria have not been fulfilled.

Substance
Ethylene glycol, CAS: 107-21-1

dermal, Rabbit, In vivo study, non-irritating



Date printed 15.03.2023, Revision 15.03.2023

Version 12.0 Page 9 / 15

potassium 2-ethylhexanoate, CAS: 3164-85-0	
Rabbit, in vivo, OECD 404, irritant	

**Respiratory or skin sensitisation** Based on the information available, the classification criteria have not been fulfilled.

Substance
Ethylene glycol, CAS: 107-21-1
dermal, Guinea pig, In vivo study, non-sensitizing

Specific target organ toxicity —<br/>single exposureBased on the information available, the classification criteria have not been fulfilled.Specific target organ toxicity —<br/>repeated exposureToxicological data of complete product are not available.<br/>May cause damage to organs through prolonged or repeated exposure.<br/>Calculation method

Substance	
Ethylene glycol, CAS: 107-21-1	
NOAEL, dermal, dogs, 2200 mg/kg bw/day, adverse effect observed	

NOEL, oral, Rat, 150 mg/kg bw/day, OECD 408, adverse effect observed

#### Mutagenicity

Based on the information available, the classification criteria have not been fulfilled.

Substance	
Ethylene glycol, CAS: 107-21-1	
in vitro, OECD 471, no adverse effect observed	

#### **Reproduction toxicity**

Toxicological data of complete product are not available. Suspected of damaging the unborn child. Calculation method

#### - Fertility

Substance	
Ethylene glycol, CAS: 107-21-1	
NOAEL, oral, Rat, > 1000 mg/kg bw/day, no adverse effect observed	
potassium 2-ethylhexanoate, CAS: 3164-85-0	
NOAEL, Rat, 300 mg/kg bw/day (P0)	

#### - Development

Substance
Ethylene glycol, CAS: 107-21-1
NOAEL, oral, Rat, 500 mg/kg bw/day, no adverse effect observed
potassium 2-ethylhexanoate, CAS: 3164-85-0
NOAEL, Rat, 300 mg/kg bw/day (P0)

#### Carcinogenicity

Based on the information available, the classification criteria have not been fulfilled.

Substance
Ethylene glycol, CAS: 107-21-1
NOAEL, oral, Rat, 1000 mg/kg bw/day, In vivo study, no adverse effect observed

# Aspiration hazard

Based on the information available, the classification criteria have not been fulfilled.

#### General remarks

Toxicological data of complete product are not available. The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

Date printed 15.03.2023, Revision 15.03.2023

SECTION 12: Ecological information

# 12.1 Toxicity

# Product Based on the information available, the classification criteria have not been fulfilled. Substance Ethylene glycol, CAS: 107-21-1 LC50, (28d), fish, 1.5 g/L LC50, (28d), fish, 72.86 g/L EC50, (4d), Invertebrates, 3.536 - 13 g/L EC50, (21d), Invertebrates, 3.536 - 13 g/L EC50, (21d), Invertebrates, 3.911 g/L EC50, (48h), Invertebrates, 100 mg/L potassium 2-ethylhexanoate, CAS: 3164-85-0 LC50, (96h), fish, 100 mg/L EC50, (6d), Algae, 49.3 mg/L EC50, (48h), Crustacea, 85.4 mg/L 1H-Indene-1,3(2H)-dione, 2-(2-quinolinyl)-, sulfonated, sodium salts, CAS: 95193-83-2 LC50, (48h), fish, 1000 mg/L

#### 12.2 Persistence and degradability

Behaviour in environment compartments	
Behaviour in sewage plant	Not determined
Biological degradability	Inherently biodegradable.

#### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

#### 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

#### 12.7 Other adverse effects

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.



Date printed 15.03.2023, Revision 15.03.2023

Version 12.0 Page 11 / 15

SEC	SECTION 13: Disposal considerations			
13.1	13.1 Waste treatment methods			
	Product			
		Dispose of as hazardous waste. Disposal in an incineration plant in accordance with the regulations of the local authorities.		
	Contaminated packaging			
		Uncontaminated packaging may be taken for recycling. Packaging that cannot be cleaned should be disposed of as for product.		
	RCRA Hazard Class (40CFR 261)			
		Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.		
SEC	TION 14: Transport			
14.1	UN number			
	Transport by land according to ADR/RID	Not applicable		
	Inland navigation (ADN)	Not applicable		
	Marine transport in accordance with IMDG	Not applicable		
	Air transport in accordance with IATA	Not applicable		
	DOT Road Shipment Information (49 CFR)	Not applicable		
14.2	UN proper shipping name Transport by land according to ADR/RID	NO DANGEROUS GOODS		
	Inland navigation (ADN)	NO DANGEROUS GOODS		
	Marine transport in accordance with IMDG	NOT CLASSIFIED AS "DANGEROUS GOODS"		
	Air transport in accordance with IATA	NOT CLASSIFIED AS "DANGEROUS GOODS"		
	DOT Road Shipment Information (49 CFR)	Not applicable		

Date printed 15.03.2023, Revision 15.03.2023

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Version 12.0 Page 12 / 15

14.3	Transport hazard class(es)	
	Transport by land according to ADR/RID	Not applicable
	Inland navigation (ADN)	Not applicable
	Marine transport in accordance with IMDG	Not applicable
	Air transport in accordance with IATA	Not applicable
	DOT Road Shipment Information (49 CFR)	Not applicable
14.4	Packing group	
	Transport by land according to ADR/RID	Not applicable
	Inland navigation (ADN)	Not applicable
	Marine transport in accordance with IMDG	Not applicable
	Air transport in accordance with IATA	Not applicable
	DOT Road Shipment Information (49 CFR)	Not applicable
14.5	Environmental hazards	
	Transport by land according to ADR/RID	No
	Inland navigation (ADN)	No
	Marine transport in accordance with IMDG	No
	Air transport in accordance with IATA	No
	DOT Road Shipment Information (49 CFR)	No
14.6	Special precautions for user	

Relevant information under SECTION 6 to 8.

# 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

Date printed 15.03.2023, Revision 15.03.2023

**SECTION 15: Regulatory information** 

Version 12.0 Page 13 / 15

Version 12.0 Tage 137 13

15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	US Regulations		
	National regulations	29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65	
- SARA, 302 This product does not contain any ingredients regulated unde		This product does not contain any ingredients regulated under this list.	
	- SARA, 311		
	- SARA, 313	This product contain one ingredient regulated under this list.	
	- CA Proposition 65	Some chemical substances Ethylene gylcol (ingested)- CAS 107-21-1 in this material are named in California-P65 list.	
		$\Lambda$	
		WARNING: This product can expose you to chemicals including "Ethylene gylcol", which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov."	
	- TSCA	All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.	
	- FDA		
	American Conference of Governmental Industrial Hygienists - ACGIH		
	International Agency for Research on Cancer IARC		
	National Toxicology Program - NTP	Ethylene glycol is named in the NTP - National Toxicology Program.	
	HAP-VOC	100 %	
	Transport-regulations	DOT-Classification, ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)	

15.2 Chemical safety assessment

Not applicable

Date printed 15.03.2023, Revision 15.03.2023

#### **SECTION 16: Other information**

#### 16.1 Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygienists; ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route; RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses; ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure: CAS = Chemical Abstracts Service; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; CFR = Code of Federal Regulations; CPR = Controlled Products Regulations; DMEL = Derived Minimum Effect Level; DNEL = Derived No Effect Level; DOT = Department of Transportation; EC50 = Median effective concentration; EPA = Environmental Protection Agency; GHS = Globally Harmonized System of Classification and Labelling of Chemicals; IATA = International Air Transport Association; IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 = Inhibition concentration, 50%; IMDG = International Maritime Code for Dangerous Goods; IARC = International Agency of Research on Cancer; IATA = International Air Transport Association; TSCA = Toxic Substance Control Act; HMIS = Hazardous Materials Identification System; NFPA = National Fire Protection Association; NIOSH = National Institute for Occupational Safety and Health; OSHA = Occupational Safety and Health Administration; LC50 = Lethal concentration, 50%; LD50 = Median lethal dose, 50%; MARPOL = International Convention for the Prevention of Marine Pollution from Ships; PBT = Persistent, Bioaccumulative and Toxic substance; PNEC = Predicted No-Effect Concentration; REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals; SARA = Superfund Amendments and Reauthorization Act; TLV®/TWA = Threshold limit value – time-weighted average; TLV®STEL = Threshold limit value – short-time exposure limit; VOC = Volatile Organic Compounds; vPvB = very Persistent and very Bioaccumulative;

16.2 Ratings



Page 14 / 15

Version 12.0

Date printed 15.03.2023, Revision 15.03.2023



Version 12.0 Page 15 / 15

NFPA Ratings



HMIS Ratings

-	
HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	1
PERSONAL PROTECTION	Х

TOP, FLAMMABILITY: 1 - Slight Hazard LEFT, HEALTH: 2 - Moderate Hazard RIGHT, REACTIVITY: 1 - Slight Hazard BOTTOM, SPECIAL NOTICE: -

- 2\*- Moderate chronic Hazard
- 1 Slight Hazard
- 1 Slight Hazard
- X Personal protection rating to be supplied by user depending on use conditions

PERSONAL PROTECTION:

- A Safety Glasses
- B Safety Glasses and Gloves
- C Safety Glasses, Gloves and Protection Apron
- D Face Shield, Gloves and Protection Apron
- E Safety Glasses, Gloves and Dust Respirator
- F Safety Glasses, Gloves, Protection Apron and Dust Respirator
- G Safety Glasses, Gloves and Vapor Respirator.
- H Splash Goggles, Gloves, Protection Apron and Vapor Respirator.
- I Safety Glasses, Gloves, Dust Respirator and Vapor Respirator.
- J Splash Goggles, Gloves, Protection Apron, Dust Respirator and Vapor Respirator.
- K Airline Mask or Hood, Gloves, Full Suit and Boots.
- X Personal protection rating to be supplied by user depending on use conditions

Modified position

SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties. SECTION 12 been added: Contains no ingredients with endocrine-disrupting properties.



