Universal sealant Article number 109660



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

1.1 Product identifier

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

1.2.1 Relevant uses

Sealing material

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety 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)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Repr. 2: H361f Suspected of damaging fertility.

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Signal word Contains:

Hazard pictograms

The product is classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200

(HCS 2012)

WARNING octamethylcyclotetrasiloxane, CAS: 556-67-2

Hazard statements H361f Suspected of damaging fertility.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children. P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P405 Store locked up.

P501 Dispose of contents/container to in accordance with local/regional/national/international

regulation.

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2.3 Other hazards

Human health dangers Contains no ingredients with endocrine-disrupting properties.

Environmental hazards The mixture contains the following substances which fulfill the PBT and/or vPvB criteria

according to REACH criteria, Annex XIII: CAS 541-02-6/ CAS 540-97-6/ CAS 556-67-2

Other hazards Further hazards were not determined with the current level of knowledge.

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.

Range [%]	Substance
0.1 - < 1	Dodecamethylcyclohexasiloxane
	CAS: 540-97-6
0.1 - < 1	Decamethylcyclopentasiloxane
	CAS: 541-02-6
< 0,25	octamethylcyclotetrasiloxane
	CAS: 556-67-2

Comment on component parts

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Take off contaminated clothing and wash before reuse.

Inhalation Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact Take up product with suitable papertissues before.

When in contact with the skin, clean with soap and water.

Consult a doctor if skin irritation persists.

Eye contactRinse 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 Seek medical advice immediately.

Do not induce vomiting. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Forward this sheet to the doctor.

SECTION 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.

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5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

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 containment 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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Wash hands before breaks and after work.

Use barrier skin cream.

Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container. Do not use metal containers.

Protect from heat/overheating.

Keep in a cool place. Store in a dry place.

Recommended storage temperature: $+5^{\circ}\text{C} - +25^{\circ}\text{C}$

7.3 Specific end use(s)

This product is not recommended for use in joints which will be in contact with either pure oxygen or steam.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (US)

Substance

Decamethylcyclopentasiloxane

CAS: 541-02-6

Long-term exposure: 10 ppm, CRMG (Chemical Manufacturer Recommended Exposure Guidelines) TWA

Acetic acid

CAS: 64-19-7

Long-term exposure: 10 ppm, 25 mg/m³, ACGIH

DNEL

Substance	
Decamethylcyclopentasiloxane, CAS: 541-02-6	
Industrial, inhalative, Acute - systemic effects, 97,3 mg/m³	
Industrial, inhalative, Acute - local effects, 24,2 mg/m³	
Industrial, inhalative, Long-term - local effects, 24,2 mg/m³	
Industrial, inhalative, Long-term - systemic effects, 97,3 mg/m³	
general population, inhalative, Acute - systemic effects, 17,3 mg/m³	
general population, inhalative, Acute - local effects, 4,3 mg/m³	
general population, inhalative, Long-term - systemic effects, 17,3 mg/m³	
general population, inhalative, Long-term - local effects, 4,3 mg/m³	
general population, oral, Acute - systemic effects, 5 mg/kg bw/d	
general population, oral, Long-term - systemic effects, 5 mg/kg bw/d	
Dodecamethylcyclohexasiloxane, CAS: 540-97-6	
Industrial, inhalative, Long-term - systemic effects, 11 mg/m ³	
Industrial, inhalative, Long-term - local effects, 1,22 mg/m³	
Industrial, inhalative, Acute - local effects, 6,1 mg/m³	
general population, inhalative, Long-term - systemic effects, 2,7 mg/m³	
general population, inhalative, Long-term - local effects, 0,3 mg/m³	
general population, inhalative, Acute - local effects, 1,5 mg/m³	
general population, oral, Acute - local effects, 1,7 mg/kg bw/day	
octamethylcyclotetrasiloxane, CAS: 556-67-2	
Industrial, inhalative, Long-term - local effects, 73 mg/m³	
Industrial, inhalative, Long-term - systemic effects, 73 mg/m³	
general population, inhalative, Long-term - systemic effects, 13 mg/m³	
general population, oral, Long-term - systemic effects, 3,7 mg/kg bw/day	
general population, inhalative, Long-term - local effects, 13 mg/m³	

PNEC

Substance	
Decamethylcyclopentasiloxane, CAS: 541-02-6	
freshwater, 0,0012 mg/l	
eawater, 0,00012 mg/l	
sediment (freshwater), 2,39 mg/kg dw	
sediment (seawater), 0,239 mg/kg dw	
sewage treatment plants (STP), > 10 mg/l	
oil, 3,34 mg/kg dw	

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Dodecamethylcyclohexasiloxane, CAS: 540-97-6	
sewage treatment plants (STP), 1 mg/L	
sediment (freshwater), 13 mg/kg sediment dw	
sediment (seawater), 1,3 mg/kg sediment dw	
soil, 3,77 mg/kg soil dw	
oral (food), 66,7 mg/kg	
octamethylcyclotetrasiloxane, CAS: 556-67-2	
freshwater, 1,5 µg/L	
seawater, 0,15 µg/L	
sewage treatment plants (STP), 10 mg/L	
sediment (freshwater), 3 mg/kg sediment dw	
sediment (seawater), 0,3 mg/kg sediment dw	
soil, 0,54 mg/kg soil dw	
oral (food), 41 mg/kg	

8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.

Eye protection safety glasses (EN 166:2001)

Hand protection The details concerned are recommendations. Please contact the glove supplier for further

information

> 0,4 mm: Viton, >480 min (EN 374-1/-2/-3).

Skin protection light protective clothing

Other 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.

Respiratory protection No dangerous reactions known if used as directed.

Thermal hazards Not applicable

Delimitation and monitoring of the

environmental exposition

Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical stateLiquidFormpastyColorblackOdoracetic

Odor threshold No information available.

pH-valuepH-value [1%]Not applicable

Boiling point or initial boiling point

and boiling range [°C]

No information available.

Flash point [°C] > 93
Flammability No

Lower explosion limitNot applicableUpper explosion limitNot applicable

Oxidizing properties No

Vapor pressure/gas pressure [kPa] No information available.

Density [g/cm³] 1,01 - 1,06 (20 °C / 68,0 °F)

Relative density

Bulk density [kg/m³]

Not applicable

Solubility in water

Not applicable

virtually insoluble

Solubility other solvents No information available.

Partition coefficient n-octanol/water No information available.

(log value)

Kinematic viscosity > 20,5 mm²/S (40°C)

Relative vapour density

No information available.

Melting point [°C]

No information available.

No information available.

No information available.

No information available.

Particle characteristics Not applicable

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. Reactions with reducing agents.

10.4 Conditions to avoid

Strong heating.
Sensitive to moisture

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10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

Acetic acid.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

Product

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

Substance

Decamethylcyclopentasiloxane, CAS: 541-02-6

LD50, oral, Rat, > 5000 mg/kg bw

Dodecamethylcyclohexasiloxane, CAS: 540-97-6

LD50, oral, Rat, > 2000 mg/kg (OECD 423)

octamethylcyclotetrasiloxane, CAS: 556-67-2

LD50, oral, Rat, 4800 mg/kg

Acute dermal toxicity

Product

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

Substance

Decamethylcyclopentasiloxane, CAS: 541-02-6

LD50, dermal, Rabbit, > 2000 mg/kg bw

Dodecamethylcyclohexasiloxane, CAS: 540-97-6

LD50, dermal, Rat, > 2000 mg/kg (OECD 402)

octamethylcyclotetrasiloxane, CAS: 556-67-2

LD50, dermal, Rat, > 2400 mg/kg

Acute inhalational toxicity

Product

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

Substance

Decamethylcyclopentasiloxane, CAS: 541-02-6

LD50, inhalativ (mist), Rat, 8,67 mg/l/4h

octamethylcyclotetrasiloxane, CAS: 556-67-2

LC50, inhalative, Rat, 36 mg/L 4h

Serious eye damage/irritation

Slight irritant effect

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

Substance

Decamethylcyclopentasiloxane, CAS: 541-02-6

Eye, non-irritating

octamethylcyclotetrasiloxane, CAS: 556-67-2

Eye, non-irritating

Skin corrosion/irritation

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

Substance

Decamethylcyclopentasiloxane, CAS: 541-02-6

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dermal, non-irritating
octamethylcyclotetrasiloxane, CAS: 556-67-2
dermal, non-irritating

Respiratory or skin sensitisation

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

Substance

Decamethylcyclopentasiloxane, CAS: 541-02-6

dermal, non-sensitizing

octamethylcyclotetrasiloxane, CAS: 556-67-2

dermal, non-sensitizing

Specific target organ toxicity — single exposure

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

Substance

octamethylcyclotetrasiloxane, CAS: 556-67-2

inhalative, irritant

Specific target organ toxicity — repeated exposure

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

Substance

Decamethylcyclopentasiloxane, CAS: 541-02-6

NOAEL, oral, Rat, 1000 mg/kg bw/day

NOAEL, dermal, Rat, 1600 mg/kg bw/day

NOAEC, inhalative, Rat, 2420 mg/m³

Dodecamethylcyclohexasiloxane, CAS: 540-97-6

NOAEL, oral, Rat, 1000 mg/kg bw/day

NOAEC, inhalative, Rat, 546 mg/kg bw/day

LOAEC, inhalative, Rat, 182 n´mg/kg bw/day

octamethylcyclotetrasiloxane, CAS: 556-67-2

NOAEL, dermal, Rabbit, 960 mg/kg bw/day (subacute), no adverse effect observed

NOAEC, inhalative, Rat, 1820 mg/m³ (chronic), no adverse effect observed

Mutagenicity

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

Substance

Decamethylcyclopentasiloxane, CAS: 541-02-6

in vitro, negativ

in vivo, negativ

octamethylcyclotetrasiloxane, CAS: 556-67-2

in vivo, negativ

Reproduction toxicity

Based on the information available, the classification criteria have been fulfilled.

Suspected of damaging fertility.

Calculation method

- Fertility

Substance

Decamethylcyclopentasiloxane, CAS: 541-02-6

NOAEC, inhalative, Rat, 2420 mg/m³

Dodecamethylcyclohexasiloxane, CAS: 540-97-6

NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on developmental toxicity)

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NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on fertility)

octamethylcyclotetrasiloxane, CAS: 556-67-2

NOAEC, inhalative, Rat, 3640 mg/m³ (subchronic), adverse effect observed

- Development

Substance

Decamethylcyclopentasiloxane, CAS: 541-02-6

NOAEC, inhalative, Rat, 2427 mg/m³

Dodecamethylcyclohexasiloxane, CAS: 540-97-6

NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on fertility)

NOAEL, oral, Rat, 1000 mg/kg bw/d (Effect on developmental toxicity)

octamethylcyclotetrasiloxane, CAS: 556-67-2

NOAEC, inhalative, Rat, 3640 mg/m³ (subchronic), adverse effect observed

Carcinogenicity

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

Substance

octamethylcyclotetrasiloxane, CAS: 556-67-2

NOAEC, inhalative, Rat, 8492 mg/m³ (chronic)

Aspiration hazard

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

General remarks

Toxicological data of complete product are not available.

SECTION 12: Ecological information

12.1 Toxicity

Product

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

Substance

Dodecamethylcyclohexasiloxane, CAS: 540-97-6

EC50, (72h), Pseudokirchneriella subcapitata, > 0,002 mg/l

EC50, (3h), Bacteria, 100 mg/l

NOEC, (28d), 130 mg/kg sediment dw

NOEC, (28d), 1 g/kg soil dw

NOEC, (21d), Daphnia magna, >= 0,0046 mg/l

NOEC, (72h), Pseudokirchneriella subcapitata, >= 0,002 mg/l

octamethylcyclotetrasiloxane, CAS: 556-67-2

EC50, (48h), Invertebrates, 0,015 mg/L

EC50, (4d), Algae, 0,022 mg/L

NOEC, (48h), Invertebrates, 0,015 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments

Behaviour in sewage plant Not determined Biological degradability Not determined

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12.3 Bioaccumulative potential

Product has having no bioaccumulation potential.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The mixture contains the following substances which fulfill the PBT and/or vPvB criteria according to REACH criteria, Annex XIII:

CAS 541-02-6

CAS 540-97-6

CAS 556-67-2

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Do not discharge product unmonitored into the environment.

The product is insoluble in water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Coordinate disposal with the disposal contractor/authorities if necessary.

Contaminated packaging

Uncontaminated packaging may be taken for recycling.

Contaminated packing should be disposed of as product waste.

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.

SECTION 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 Not applicable

CFR)

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14.2 UN proper shipping name

Transport by land according to ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN)

NO DANGEROUS GOODS

IMDG

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

DOT Road Shipment Information (49 Not applicable

CFR)

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 Not applicable

IMDG

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

14.4 Packing group

Transport by land according to

ADR/RID

Not applicable

Inland navigation (ADN)

Not applicable

Marine transport in accordance with Not applicable

IMDG

Air transport in accordance with IATA Not applicable

DOT Road Shipment Information (49 Not applicable

CFR)

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14.5 Environmental hazards

Transport by land according to

ADR/RID

No

Inland navigation (ADN)

No

Marine transport in accordance with

IMDG

Air transport in accordance with IATA No

DOT Road Shipment Information (49 No

CFR)

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

SECTION 15: Regulatory information

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 under this list. - SARA, 311 This product is classified as hazardous under SARA 311 - Delayed . - SARA, 313 This product does not contain any ingredients regulated under this list.

- CA Proposition 65 No components require labeling under California Proposition 65.

- 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 -

No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcino-gen by ACGIH.

Cancer IARC

International Agency for Research on No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

National Toxicology Program - NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

HAP-VOC 36 g/l

Transport-regulations DOT-Classification, ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2024)

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

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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

Customs Tariff Not determined

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NFPA Ratings



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

HMIS Ratings



- 2*- Moderate chronic Hazard
- 1 Slight Hazard
- 1 Slight Hazard
- C Safety Glasses, Gloves and Protection Apron

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

1.3, 2.3, 3.2, 8.1, 9.1, 11.1, 11.2, 12.5, 15.1, 16.2, 16.3

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