

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

1.1. Product identifier

| | |
|------------------------|----------------------------|
| Product form | : Substance |
| Substance name | : sodium bicarbonate |
| Chemical name | : Sodium Hydrogencarbonate |
| EC-No. | : 205-633-8 |
| CAS-No. | : 144-55-8 |
| REACH registration No. | : 01-2119457606-32-0006 |

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

1.2.1. Relevant identified uses

Main use category : Professional use, Consumer use, Industrial use

| Title | Use descriptors |
|--------------------------|--|
| Consumer uses | SU0, PC0, PC1, PC2, PC3, PC4, PC7, PC8, PC9a, PC9b, PC9c, PC11, PC12, PC13, PC14, PC15, PC16, PC17, PC18, PC20, PC21, PC23, PC24, PC25, PC26, PC27, PC28, PC29, PC30, PC31, PC32, PC33, PC34, PC35, PC36, PC37, PC38, PC39, PC40, ERC2, ERC3, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b, ERC11a, ERC11b |
| Others | SU0, SU1, SU2a, SU2b, SU4, SU5, SU6a, SU6b, SU7, SU8, SU9, SU11, SU12, SU13, SU14, SU15, SU16, SU17, SU18, SU19, SU20, SU23, SU24, PC0, PC1, PC2, PC3, PC4, PC7, PC8, PC9a, PC9b, PC9c, PC11, PC12, PC13, PC14, PC15, PC16, PC17, PC18, PC20, PC21, PC23, PC24, PC25, PC26, PC27, PC28, PC29, PC30, PC31, PC32, PC33, PC34, PC35, PC36, PC37, PC38, PC39, PC40, PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC15, PROC17, PROC18, PROC19, PROC22, PROC23, PROC26, ERC4, ERC5, ERC6a, ERC6b, ERC6d, ERC7, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b |
| Professional uses | SU0, SU1, SU2a, SU2b, SU4, SU5, SU6a, SU6b, SU7, SU18, SU19, SU20, SU23, SU24, PC0, PC1, PC2, PC3, PC4, PC7, PC8, PC9a, PC9b, PC9c, PC11, PC12, PC13, PC14, PC15, PC16, PC17, PC18, PC20, PC21, PC23, PC24, PC25, PC26, PC27, PC28, PC29, PC30, PC31, PC32, PC33, PC34, PC35, PC36, PC37, PC38, PC39, PC40, PROC1, PROC2, PROC3, PROC4, PROC5, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC12, PROC13, PROC14, PROC15, PROC17, PROC18, PROC19, PROC20, PROC21, PROC22, PROC23, PROC24, PROC26, PROC27a, PROC27b, ERC2, ERC3, ERC8a, ERC8b, ERC8c, ERC8d, ERC8e, ERC8f, ERC9a, ERC9b, ERC10a, ERC10b, ERC11a, ERC11b |
| Formulation in materials | SU0, PC35, PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15, ERC2 |
| Flue-gas dust | SU0, SU2a, SU2b, SU4, SU5, SU6a, SU6b, SU8, SU9, SU11, SU12, SU13, SU14, SU15, SU18, SU20, SU23, PC0, PC20, PROC2, PROC8b, PROC15, PROC22, ERC6b |
| Processing aid | SU2a, PC0, PC20, PROC8b, PROC26, ERC6a, ERC6b |
| Paper industry | SU6b, PC0, PC20, PROC1, PROC2, PROC3, PROC4, PROC5, PROC8b, PROC15, ERC1, ERC4, ERC6a, ERC6b |

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

Technical Grade

1.3. Details of the supplier of product safety information sheet

Manufacturer

Sisecam soda Lukavac Ltd.
Prva ulica br.1
75300 Lukavac, Bosnia and Herzegovina
T +38735552323 – F +38735552696
reach@sisecam.com - sisecamchemicals.com

Only Representative

Şişecam Bulgaria Ltd
27 Bratya Milodinovi
Varna-Bulgaria
T +359 52 608 963 - F +359 52 608 964
RDIMITROV@sisecam.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

| Name | Product identifier | % |
|--------------------|---|--------|
| sodium bicarbonate | CAS-No.: 144-55-8 EC-No.: 205-633-8 REACH-no: 01-2119457606-32-0006 | ≥ 99.1 |

Technical Grade

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse eyes with water as a precaution. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |

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

No additional information available

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|------------------------------|----------------------------------|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. |
|------------------------------|----------------------------------|

5.2. Special hazards arising from the substance or mixture

| | |
|--|--------------------------------|
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
|--|--------------------------------|

5.3. Advice for firefighters

| | |
|---------------------------------------|--|
| Protective equipment for firefighters | : 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, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

| | |
|----------------------|----------------------------|
| Emergency procedures | : Ventilate spillage area. |
|----------------------|----------------------------|

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| Methods for cleaning up | : Mechanically recover the product. |
| Other information | : Dispose of materials or solid residues at an authorized site. |

6.4. Reference to other sections

For further information refer to section 13.

Technical Grade

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-----------------------------------|---|
| Additional hazards when processed | : Avoid creating or spreading dust. |
| Precautions for safe handling | : Ensure good ventilation of the work station. Wear personal protective equipment. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|--------------------|--|
| Storage conditions | : Store in a well-ventilated place. Keep cool. |
|--------------------|--|

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

| sodium bicarbonate (144-55-8) | |
|---|--|
| Czech Republic - Occupational Exposure Limits | |
| Local name | Uhličitany a hydrogenuhličitany sodný a draselný |
| PEL (OEL TWA) | 5 mg/m ³ |
| Remark | I - dráždí sliznice (oči, dýchací cesty), respektive kůže, V - vdechovatelná frakce aerosolu. |
| Regulatory reference | Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.) |
| Latvia - Occupational Exposure Limits | |
| Local name | Nātrija hidrogēnkarbonāts (dzeramā soda) |
| OEL TWA | 5 mg/m ³ |
| Regulatory reference | Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2011. gada 1. februārī noteikumiem Nr. 92) |

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:
Dust formation: dust mask.

Technical Grade

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. ISO 16321-1

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves made of rubber or PVC. ISO 374-1. Layer thickness : > 0,11 mm. Breakthrough time : > 480 min

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment (EN 136/140/145)

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--------------------------|
| Physical state | : Solid |
| Colour | : White. |
| Appearance | : Crystalline powder. |
| Odour | : Odourless. |
| Odour threshold | : Not determined |
| Melting point | : Not determined |
| Freezing point | : Not determined |
| Boiling point | : Not determined |
| Flammability | : Non flammable. |
| Explosive properties | : Not determined. |
| Oxidising properties | : Not oxidising. |
| Explosive limits | : Not applicable |
| Lower explosion limit | : Not applicable |
| Upper explosion limit | : Not applicable |
| Flash point | : Not applicable |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : > 60 °C |
| pH | : 8.8 |
| pH solution | : 52 g/L |
| Viscosity, kinematic | : Not applicable |
| Solubility | : Water: 96 g/l at 20 °C |
| Partition coefficient n-octanol/water (Log Kow) | : Not determined |
| Vapour pressure | : Not applicable |
| Vapour pressure at 50°C | : Not applicable |
| Density | : 0.9 – 1.25 g/cm³ |
| Relative density | : Not determined |

Technical Grade

Relative vapour density at 20°C : Not applicable
Particle size : Not determined

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Relative evaporation rate (butylacetate=1) : Not determined

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

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

sodium bicarbonate (144-55-8)

| | |
|---------------|---------------------|
| LD50 oral rat | > 4000 mg/kg bw/day |
|---------------|---------------------|

Skin corrosion/irritation : Not classified
pH: 8.8

Serious eye damage/irritation : Not classified
pH: 8.8

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Technical Grade

| sodium bicarbonate (144-55-8) | |
|-------------------------------|----------------|
| Viscosity, kinematic | Not applicable |

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

| | |
|---|---|
| Ecology - general | : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. |
| Hazardous to the aquatic environment, short-term (acute) | : Not classified |
| Hazardous to the aquatic environment, long-term (chronic) | : Not classified |

12.2. Persistence and degradability

sodium bicarbonate (144-55-8)

| | |
|----------------|-------------------|
| Biodegradation | Not biodegradable |
|----------------|-------------------|

12.3. Bioaccumulative potential

sodium bicarbonate (144-55-8)

| | |
|---|----------------|
| Partition coefficient n-octanol/water (Log Kow) | Not determined |
|---|----------------|

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

sodium bicarbonate (144-55-8)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12.7. Other adverse effects

No additional information available

Technical Grade

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

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

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

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

Technical Grade

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Not listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Not listed on the PIC list (Regulation EU 649/2012)

POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

Germany

| | |
|--|---|
| Employment restrictions | : Observe restrictions according Act on the Protection of Working Mothers (MuSchG). Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG). |
| Water hazard class (WGK) | : WGK 1, Slightly hazardous to water (Classification according to VwVwS, Annex 1 or 2; ID No. 374). |
| Hazardous Incident Ordinance (12. BImSchV) | : Is not subject of the Hazardous Incident Ordinance (12. BImSchV) |

Netherlands

| | |
|--|-------------------------------|
| SZW-lijst van kankerverwekkende stoffen | : The substance is not listed |
| SZW-lijst van mutagene stoffen | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Vruchtbaarheid | : The substance is not listed |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling | : The substance is not listed |

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16: Other information

A safety data sheet is not required for this product under Article 31 of REACH. This Product Safety Information Sheet has been created on a voluntary basis

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| COD | Chemical oxygen demand (COD) |

Technical Grade

Abbreviations and acronyms:

| | |
|---------|--|
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Effective concentration for 50 percent of test population (median effective concentration) |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Lethal concentration for 50 percent of test population (median lethal concentration) |
| LD50 | Lethal dose for 50 percent of test population (median lethal dose) |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| OEL | Occupational Exposure Limit |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| RID | Regulation concerning the International Carriage of Dangerous Goods by Railways |
| SDS | Safety Data Sheet |
| STP | Sewage treatment plant |
| ThOD | Theoretical oxygen demand (ThOD) |
| TLM | Median Tolerance Limit |
| VOC | Volatile Organic Compounds |
| CAS-No. | Chemical Abstract Service number |
| N.O.S. | Not Otherwise Specified |
| vPvB | Very Persistent and Very Bioaccumulative |
| ED | Endocrine disrupting properties |

Full text of use descriptors

| | |
|--------|--|
| ERC1 | Manufacture of the substance |
| ERC10a | Widespread use of articles with low release (outdoor) |
| ERC10b | Widespread use of articles with high or intended release (outdoor) |
| ERC11a | Widespread use of articles with low release (indoor) |
| ERC11b | Widespread use of articles with high or intended release (indoor) |
| ERC2 | Formulation into mixture |
| ERC3 | Formulation into solid matrix |

Technical Grade

| Full text of use descriptors | |
|------------------------------|--|
| ERC4 | Use of non-reactive processing aid at industrial site (no inclusion into or onto article) |
| ERC5 | Use at industrial site leading to inclusion into/onto article |
| ERC6a | Use of intermediate |
| ERC6b | Use of reactive processing aid at industrial site (no inclusion into or onto article) |
| ERC6d | Use of reactive process regulators in polymerisation processes at industrial site (inclusion or not into/onto article) |
| ERC7 | Use of functional fluid at industrial site |
| ERC8a | Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) |
| ERC8b | Widespread use of reactive processing aid (no inclusion into or onto article, indoor) |
| ERC8c | Widespread use leading to inclusion into/onto article (indoor) |
| ERC8d | Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) |
| ERC8e | Widespread use of reactive processing aid (no inclusion into or onto article, outdoor) |
| ERC8f | Widespread use leading to inclusion into/onto article (outdoor) |
| ERC9a | Widespread use of functional fluid (indoor) |
| ERC9b | Widespread use of functional fluid (outdoor) |
| PC0 | Other |
| PC1 | Adhesives, sealants |
| PC11 | Explosives |
| PC12 | Fertilizers |
| PC13 | Fuels |
| PC14 | Metal surface treatment products |
| PC15 | Non-metal-surface treatment products |
| PC16 | Heat Transfer Fluids |
| PC17 | Hydraulic Fluids |
| PC18 | Ink and Toners |
| PC2 | Adsorbents |
| PC20 | Metal surface treatment products |
| PC21 | Laboratory chemicals |
| PC23 | Leather treatment products |
| PC24 | Lubricants, greases, release products |
| PC25 | Metal working fluids |
| PC26 | Paper and board treatment products |
| PC27 | Plant protection products |
| PC28 | Perfumes, fragrances |
| PC29 | Pharmaceuticals |
| PC3 | Air care products |
| PC30 | Photo-chemicals |
| PC31 | Polishes and wax blends |

Technical Grade

| Full text of use descriptors | |
|------------------------------|--|
| PC32 | Polymer preparations and compounds |
| PC33 | Semiconductors |
| PC34 | Textile dyes, and impregnating products |
| PC35 | Washing and cleaning products |
| PC36 | Water softeners |
| PC37 | Water treatment chemicals |
| PC38 | Welding and soldering products, flux products |
| PC39 | Cosmetics, personal care products |
| PC4 | Anti-Freeze and De-icing products |
| PC40 | Extraction agents |
| PC7 | Base metals and alloys |
| PC8 | Biocidal products |
| PC9a | Coatings and paints, thinners, paint removers |
| PC9b | Fillers, putties, plasters, modelling clay |
| PC9c | Finger paints |
| PROC1 | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions |
| PROC10 | Roller application or brushing |
| PROC11 | Non industrial spraying |
| PROC12 | Use of blowing agents in manufacture of foam |
| PROC13 | Treatment of articles by dipping and pouring |
| PROC14 | Tabletting, compression, extrusion, pelettisation, granulation |
| PROC15 | Use as laboratory reagent |
| PROC17 | Lubrication at high energy conditions in metal working operations |
| PROC18 | General greasing /lubrication at high kinetic energy conditions |
| PROC19 | Manual activities involving hand contact |
| PROC2 | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
| PROC20 | Use of functional fluids in small devices |
| PROC21 | Low energy manipulation and handling of substances bound in/on materials or articles |
| PROC22 | Manufacturing and processing of minerals and/or metals at substantially elevated temperature |
| PROC23 | Open processing and transfer operations at substantially elevated temperature |
| PROC24 | High (mechanical) energy work-up of substances bound in /on materials and/or articles |
| PROC26 | Handling of solid inorganic substances at ambient temperature |
| PROC27a | Production of metal powders (hot processes) |
| PROC27b | Production of metal powders (wet processes) |
| PROC3 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |

Technical Grade

| Full text of use descriptors | |
|------------------------------|---|
| PROC4 | Chemical production where opportunity for exposure arises |
| PROC5 | Mixing or blending in batch processes |
| PROC6 | Calendering operations |
| PROC7 | Industrial spraying |
| PROC8a | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities |
| PROC8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities |
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
| SU0 | Other |
| SU1 | Agriculture, forestry, fishery |
| SU11 | Manufacture of rubber products |
| SU12 | Manufacture of plastics products, including compounding and conversion |
| SU13 | Manufacture of other non-metallic mineral products, e.g. plasters, cement |
| SU14 | Manufacture of basic metals, including alloys |
| SU15 | Manufacture of fabricated metal products, except machinery and equipment |
| SU16 | Manufacture of computer, electronic and optical products, electrical equipment |
| SU17 | General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment |
| SU18 | Manufacture of furniture |
| SU19 | Building and construction work |
| SU20 | Health services |
| SU23 | Electricity, steam, gas water supply and sewage treatment |
| SU24 | Scientific research and development |
| SU2a | Mining, (including offshore industries) |
| SU2b | Offshore industries |
| SU4 | Manufacture of food products |
| SU5 | Manufacture of textiles, leather, fur |
| SU6a | Manufacture of wood and wood products |
| SU6b | Manufacture of pulp, paper and paper products |
| SU7 | Printing and reproduction of recorded media |
| SU8 | Manufacture of bulk, large scale chemicals (including petroleum products) |
| SU9 | Manufacture of fine chemicals |