

Health & Safety Information

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

1.1. Product identifier

Product name Carbon Steel Welded
Process & Power (Medium Alloy Steel, Low Alloy Steel, High Alloy and Stainless Steel, Carbon Steel)
OCTG (Carbon Steel, Stainless Steel, Carbon Steel Welded)
MINING (C-Mn Steel Welded)
Line Pipe (C – Mn Steel, Stainless Steel, C-Mn Steel Welded)
INDUSTRIAL APPLICATIONS (C-Mn Steel Welded, Carbon Steel Welded)
Auto (All Bearing Steel Grades)

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

Intended use Seamless steel pipe, welded steel pipes

1.3. Details of the supplier of the safety data sheet

TenarisDalmine	Piazza Caduti 6 Luglio 1944, 1 - 24044 - Dalmine (BG), Italy
TenarisSiderca	250 Dr. Simini Street - B2804MHA Campana - Buenos Aires – Argentina
TenarisTamsa	Km. 433.7 Carr. México-Veracruz Via Xalapa - 91697Veracruz – Veracruz - México
TenarisNKK	2-1 Ikegami, Kawasaki-ku - 210-0855 Kawasaki – Kawasaki – Japan
TenarisAlgoma	547 Wallace Terrace - ON P6c 1L9 Sault Saint Marie – Ontario – Canada
TenarisSilcotub	93, Mihai Viteazu Blvd. – 450131 Zalau - Salaj County – Romania
TenarisConfab	Av. Dr. Gastão Vidigal Neto 475 - 12414-900 Pindamonhangaba - Cidade Nova - São Paulo – Brazil
TenarisTuboCaribe	Carrera 13, No. 93B -51, 4to. Piso - Santa Fe de Bogotá – Cudinamarca – Colombia
TenariSiat	Guatemala 3400 - B1822AXZ Valentín Alsina - Buenos Aires – Argentina
TenarisPrudential	1800, 140 – 4th Ave. S.W. - T2P 3N3 Calgary – Alberta – Canada
TenarisHicman	5000 N County Rd. 967 – 72315 Blytheville – Arkansas – USA
TenarisConroe	699 FM 3083 – 77301 Conroe – Texas – USA

1.4. Emergency

For urgent inquiries refer to

e-mail: MSDS@tenaris.com

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is considered "**article**" under **REACH** (Regulation 1907/2006) and **OSHA** (Standard Number 1910.1200), therefore not subject:

- to supply a safety data sheet (article 31 Reg. REACH and OSHA1910.1200)
- to classification and labelling

GHS - Occupational Safety and Health Administration

1.3.2.1.1 The GHS applies to pure substances and their dilute solutions and mixture. "Articles" as defined in the Hazard Communication Standard (29 CFR 1910.1200) of the Occupational Safety and Health Administration of the United States of America, or by similar definition, are outside the scope of the system.

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SECTION 3. Composition/information on ingredients.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Base Metal:

Identification.	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
IRON			
CAS. 7439-89-6	balance to 100		
EC. 231-096-4			
INDEX. -			
Reg. no. -			

Alloying Elements:

Identification.	Conc. %.	Classification 67/548/EEC.	Classification 1272/2008 (CLP).
NICKEL			
CAS. 7440-02-0	max 36	Carc. Cat. 3 R40, T R48/23, Xi R43, Note 7 S	Carc. 2 H351, STOT RE 1 H372, Skin Sens. 1 H317, Note 7 S
EC. 231-111-4			
INDEX. 028-002-00-7			
Reg. no. -			
CHROMIUM			
CAS. 7440-47-3	max 30		Substance with a community workplace exposure limit.
EC. 231-157-5			
INDEX. -			
Reg. no. -			
MANGANESE			
CAS. 7439-96-5	max 14,5		
EC. 231-105-1			
INDEX. -			
Reg. no. -			
MOLYBDENUM			
CAS. 7439-98-7	max 8		
EC. 231-107-2			
INDEX. -			
Reg. no. -			

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SILICON

CAS. 7440-21-3 max 6,5

EC. 231-130-8

INDEX. -

Reg. no. -

COPPER

CAS. 7440-50-8 max 2

EC. 231-159-6

INDEX. -

Reg. no. -

TUNGSTEN

CAS. 7440-33-7 max 2

EC. 231-143-9

INDEX. -

ALUMINIUM

CAS. 7429-90-5 max 1,5

EC. 231-072-3

INDEX. -

Reg. no. -

CARBON

CAS. 7440-44-0 max 1,05

EC. 231-153-3

INDEX. -

Reg. no. -

NIObIUM

CAS. 7440-03-1 max 1

EC. 231-113-5

INDEX. -

VANADIUM

CAS. 7440-62-2 max 0,55

EC. 231-171-1

INDEX. -

TITANIUM

CAS. 7440-32-6 max 0,1

EC. 231-142-3

INDEX. -

Reg. no. -

SULFUR

CAS. 7704-34-9 max 0,06

Xi R38

Skin Irrit. 2 H315

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EC. 231-722-6

INDEX. 016-094-00-1

CALCIUM

CAS. 7440-70-2

max 0,01

F R15

Water-react. 2 H261

EC. 231-179-5

INDEX. 020-001-00-X

Reg. no. -

BORON

CAS. 7440-42-8

max 0,007

EC. 231-151-2

INDEX. -

Reg. no. -

Note: Upper limit is not included into the range.

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritant(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely Flammable(F+), F = Highly Flammable(F), N = Dangerous for the Environment(N)

SECTION 4. First aid measures.

4.1. Description of first aid measures.

The information in this section is relevant in the event of dust formation.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

If thermal burn has occurred, flush area with cold water and seek medical attention. If mechanical abrasion has occurred, seek medical attention.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

For symptoms and effects caused by the contained substances, see chap. 11.

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

Information not available.

SECTION 5. Firefighting measures.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide and chemical powder.

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UNSUITABLE EXTINGUISHING EQUIPMENT

Molten metal may react violently with water.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters.

GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures.

Not applicable to steel products in the solid state.

For spills involving finely divided particles, clean-up personnel should protect eyes and skin from accidental contact. If material is in a dry state, avoid inhalation of dust. Wet sweeping methods or vacuuming must be applied to prevent spreading of dry and fine dusts. Avoid using compressed air. Do not release collected material into sewers or waterways.

Collect material in appropriate, labeled containers for recovery or disposal in accordance with local regulations.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Use lifting and work devices in accordance with manufacturer's instructions when handling these products.

Lifting devices and attachments (such as spreader bars, chains, sling hooks, plate clamps, hoists, cranes, forklifts) must be load-rated sufficient for the job.

Processes potentially generating high concentrations of airborne particles should be assessed and controlled as needed. Generation of airborne dust and fume must be minimized. Avoid inhalation of metal dust or fumes.

7.2. Conditions for safe storage, including any incompatibilities.

Store away from acids and incompatible materials.

To avoid steel tubes to roll, slip, slide, or fall over restrain them appropriately while stored. Shelves or racking systems must be suitably designed for the purpose.

Large steel pipe should be stored lying flat and chocked, or secured in cradle racks.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

OSHA

Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS)
from 29 CFR 1910.1000 Z-1 Table [58 FR 35340, June 30, 1993; 58 FR 40191, July 27, 1993,

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TLV-ACGIH
OEL EU

as amended at 61 FR 56831, Nov. 4, 1996; 62 FR 1600, Jan 10,1997; 62 FR 42018, Aug. 4,1997; 71 FR 10373, Feb. 28, 2006; 71 FR 16673, Apr. 3, 2006; 71 FR 36008, June 23, 2006.].

PELs are 8-hour time weighted averages (TWAs) unless otherwise indicated.

ACGIH 2014

Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.

IRON

Threshold Limit Value.

Type

OSHA	10 mg/m3 (fumes)	Iron oxide
TLV-ACGIH	5 mg/m3 TWA/8h	Iron oxide

NICKEL

Threshold Limit Value.

Type

OSHA	1 mg/m3	Nickel, metal and insoluble compounds (as Ni)
TLV-ACGIH	1,5 mg/m3 TWA/8h	Nickel element

CHROMIUM

Threshold Limit Value.

Type

OSHA	1 mg/m3	Chromium metal and insol. salts (as Cr)	
TLV-ACGIH	0,5 mg/m3 TWA/8h	Chromium metal	
OEL	ITA	0,5	Cr e Cr (II) and (III)
OEL	EU	2	Cr e Cr (II) and (III)

MANGANESE

Threshold Limit Value.

Type

OSHA	5 mg/m3	Manganese compounds (as Mn) and fumes
TLV-ACGIH	0,02 mg/m3 TWA/8h	manganese element

MOLYBDENUM

Threshold Limit Value.

Type

OSHA	15 mg/m3 (total dust) 5 mg/m3 (insoluble compounds)	
TLV-ACGIH	10 mg/m3 TWA/8h (inhalable fraction)	molybdenum, insoluble

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3 mg/m³ TWA/8h (Respirable fraction)

compounds and metal

SILICON

Threshold Limit Value.

Type

OSHA	15 mg/m ³ (total dust) 5 mg/m ³ (Respirable fraction)
TLV-ACGIH	10 mg/m ³ TWA/8h (inhalable fraction) 3 mg/m ³ TWA/8h (Respirable fraction)

COPPER

Threshold Limit Value.

Type

OSHA	0,1 mg/m ³ (fumes) 1 mg/m ³ (dusts and mists)
TLV-ACGIH	0,2 mg/m ³ TWA/8h (fumes) 1 mg/m ³ TWA/8h (dusts and mists)

TUNGSTEN

Threshold Limit Value.

Type

OSHA	15 mg/m ³ (total dust) PNOR 5 mg/m ³ (respirable fraction) PNOR
TLV-ACGIH	1 mg/m ³ TWA/8h (insoluble compounds) 5 mg/m ³ TWA/8h (metals and insoluble compounds)

ALUMINIUM

Threshold Limit Value.

Type

OSHA	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)
TLV-ACGIH	1 mg/m ³ TWA/8h

CARBON

Threshold Limit Value.

Type

OSHA	15 mg/m ³ (total dust) PNOR 5 mg/m ³ (Respirable fraction) PNOR
TLV-ACGIH	10 mg/m ³ TWA/8h (inhalable fraction) 3 mg/m ³ TWA/8h (Respirable fraction)

NIOBIUM

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Threshold Limit Value.

Type

OSHA	15 mg/m3 (total dust) PNOR 5 mg/m3 (Respirable fraction) PNOR
TLV-ACGIH	10 mg/m3 TWA/8h (inhalable fraction) 3 mg/m3 TWA/8h (Respirable fraction)

VANADIUM**Threshold Limit Value.**

Type

OSHA	0,5 mg/m3 (respirable dust as V2O5) 0,1 mg/m3 (fumes as V2O5)
TLV-ACGIH	10 mg/m3 (inhalable fraction) 3 mg/m3 TWA/8h (Respirable fraction)

TITANIUM**Threshold Limit Value.**

Type

OSHA	15 mg/m3 (total dust) PNOR 5 mg/m3 (Respirable fraction) PNOR
TLV-ACGIH	10 mg/m3 TWA/8h (inhalable fraction) 3 mg/m3 TWA/8h (Respirable fraction)

sulfur**Threshold Limit Value.**

Type

OSHA	15 mg/m3 (total dust) PNOR 5 mg/m3 (Respirable fraction) PNOR
TLV-ACGIH	10 mg/m3 TWA/8h (inhalable fraction) 3 mg/m3 TWA/8h (Respirable fraction)

calcium**Threshold Limit Value.**

Type

OSHA	15 mg/m3 (total dust) PNOR 5 mg/m3 (Respirable fraction) PNOR
TLV-ACGIH	10 mg/m3 TWA/8h (inhalable fraction) 3 mg/m3 TWA/8h (Respirable fraction)

BORON**Threshold Limit Value.**

Type

OSHA	15 mg/m3 (total dust) as boron oxide
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TLV-ACGIH 10 mg/m3 TWA/8h (boron oxide)

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

PNOR = Particulates not otherwise regulated

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

HAND PROTECTION

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374).

Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

Protective gloves should be worn as required for welding, burning or handling operations

SKIN PROTECTION

Wear category III professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

Use safety glasses or goggles as required for welding, burning, sawing, brazing, grinding or machining operations..

RESPIRATORY PROTECTION

NIOSH / MSHA approved dust and fume respirator should be used to avoid excessive inhalation of particles.

Seek professional advice prior to respirator selection and use. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical properties.

Appearance	solid
Colour	metallic grey.
Odour	Not available.

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Odour threshold.	Not available.
pH.	Not available.
Melting point / freezing point.	Not available.
Initial boiling point.	Not applicable.
Boiling range.	Not available.
Flash point.	Not applicable.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	7,85.
Solubility	insoluble in water.
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

Molten metal may react violently with water.

Metal react with strong acids to form hydrogen. Iron oxide dusts in contact with calcium hypochlorite evolve oxygen and may cause an explosion.

10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

10.5. Incompatible materials.

Strong acids, calcium hypochlorite.

10.6. Hazardous decomposition products.

Thermal oxidative decomposition of steel products can produce fumes containing iron and manganese oxides as well as other elements. If present, surface treatments and coatings such as oil, paint, resin, varnish may generate noxious gases.

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SECTION 11. Toxicological information.

11.1. Information on toxicological effects.

Steel products under normal conditions do not represent an inhalation, ingestion or contact health hazard. However, operations such as burning, welding, sawing, brazing, grinding, etc. may result in the following effects if exposure exceeds permissible limits for each component.

Inhalation: The inhalation of high concentrations of freshly formed oxide fumes and dusts of manganese, copper and lead can cause an acute reaction known as "metal fume fever".

Eye contact: Excessive exposure to high concentration of dust may cause irritation to the eyes.

Skin contact: Skin contact with dusts and with oil residues (only if prolonged and repeated) may cause irritation or sensitization.

Ingestion: Ingestion of dust may cause nausea or vomiting.

Health effects:

Long-term inhalation exposure to high concentrations to pneumoconiotic agents may act synergistically with inhalation of oxides, fumes or dusts of this product to cause toxic effects.

Individuals with chronic respiratory disorders (i.e., asthma, chronic bronchitis, emphysema, etc.) may be adversely affected by any fume or airborne particulate matter exposure.

Data available for the dangerous elements:

NICKEL

RESPIRATORY OR SKIN SENSITISATION: may cause an allergic skin reaction, harmonized classification as per Reg. CLP, Annex VI;

CARCINOGENICITY: NOAEC (carcinogenicity) 0.4 mg/m³, rat, OECD Guideline 451.

STOT-REPEATED EXPOSURE. Repeated dose toxicity study via inhalation route: LOAEC 1 mg/m³, rat, OECD Guideline 413.

SULFUR

SKIN CORROSION/IRRITATION: irritating, rabbit, equivalent or similar to OECD Guideline 404.

SECTION 12. Ecological information.

Avoid dispersal of dust in the environment.

12.1. Toxicity.

Information not available.

12.2. Persistence and degradability.

Information not available.

12.3. Bioaccumulative potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects.

Information not available.

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SECTION 13. Disposal considerations.

13.1. Waste treatment methods.

Product residues in the form of powder should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

SECTION 14. Transport information.

14.1. UN number.

Not applicable.

14.2. UN proper shipping name.

Not applicable.

14.3. Transport hazard class(es).

Not applicable.

14.4. Packing group.

Not applicable.

14.5. Environmental hazards.

Not applicable.

14.6. Special precautions for user.

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.

Information not relevant.

SECTION 15. Regulatory information.

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

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Contained substance.

Point.

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NICKEL

Substances in Candidate List (Art. 59 REACH).

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None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

SECTION 16. Other information.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

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GENERAL BIBLIOGRAPHY

1. GHS - Occupational Safety and Health Administration
 2. OSHA (Standard Number 1910.1200).
 3. Directive 1999/45/EC and following amendments
 4. Directive 67/548/EEC and following amendments and adjustments
 5. Regulation (EU) 1907/2006 (REACH) of the European Parliament
 6. Regulation (EU) 1272/2008 (CLP) of the European Parliament
 7. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 8. Regulation (EU) 453/2010 of the European Parliament
 9. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 10. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 11. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 12. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 13. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - Niosh - Registry of Toxic Effects of Chemical Substances
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - ECHA website

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