



MATERIAL SAFETY DATA SHEET

CX 80

Updated 01-08-2016

Version 2.2

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Done in accordance with EC Regulation 1907/2006 (REACH) and 453/2010

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

1.1 Product identifier

CX80SILV WELD

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

Identified applications: product for gluing all hard, rigid components.

Uses advised against: not specified.

1.3 Details of the supplier of the safety data sheet

Company name: CX-80 Poland

63-460 Nowe Skalmierzyce

Chotów 7a

E-mail: cx80@cx80.pl

Tel. +48 627624607

Technical department tel. + 48 62 7624607

Working days, 09-16

1.4 Emergency telephone number

Emergency telephone: 112 (general emergency call), 998 (fire brigade), 999 (ambulance)

Section 2: Hazard identification

2.1 Classification of the substance or mixture

Dangers to man

Irritant. Irritating to eyes and skin. May cause sensitization by skin contact.

Risks due to physicochemical properties

There is no.

2.2 Label elements

Letter designation and identification of danger

IRRITANT



Names of dangerous ingredients on the label

Contains: reaction product of bisphenol A with epichlorohydrin.

Names of dangerous ingredients on the label

Contains: reaction product of bisphenol A with epichlorohydrin.

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Precautionary statements

P102 Keep out of the reach of children.

P260 Do not breathe vapor.

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / eye protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Take out contact lenses if they are and can be easily removed. Still rinse



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Additional information

Contains epoxy constituents. Refer to the manufacturer's instructions.

2.3 Other hazards

There is no information on meeting the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation. Appropriate studies were not carried out.

Section 3: Composition / information on ingredients

3.1 substances

Not applicable.

3.2 Mixtures

Reaction product of bisphenol A with epichlorohydrin; Epoxy resin (average molecular weight ≤ 700)

Concentration range: 60-70%

CAS Number: 25068-38-6

EC Number: 500-033-5

Registration number: 01-2119456619-26-XXXX

Classification according to 1272/2008 / EC: Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317,

Aquatic Chronic 2 H411 metallic aluminum (metallic)

Range of concentrations: 10-30%

CAS Number: 7429-90-5

EC Number: 231-072-3

Registration number: 01-2119529243-45-XXXX

Classification according to 1272/2008 / EC: the substance is not classified as dangerous.

Substance with a Community and national concentration limit value

In the work environment.

Full text of H-phrases in section 16.

Section 4: First aid measures

4.1 Description of first aid measures

In contact with skin: Take off contaminated clothing and wash skin with plenty of water. If no irritation occurs, it is advisable to use soap. Consult your doctor.

Contact with eyes: Immediately consult a doctor. Keep unprotected eye, remove contact lenses. Wash contaminated eyes thoroughly with water for 10-15 minutes. Avoid strong water jet - risk of damage to the cornea.

In case of ingestion: do not induce vomiting. Rinse mouth with water and then rinse with plenty of water. Never give anything to the unconscious person. Call a doctor, show a package or label.

After inhalation: seek medical advice immediately. Take the injured person to fresh air, provide warmth and calm. In case of difficulty breathing, apply artificial respiration. Occurrence of symptoms may be delayed.

4.2 Most important symptoms and effects, both acute and delayed

In contact with eyes: redness, tearing, burning, pain, irritation.

In contact with skin: redness, drying, irritation, susceptible persons may be present

Allergic reactions, itchy itchy rash.

After inhalation: pain and dizziness, cough.

Ingestion: abdominal pain, nausea, vomiting.



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4.3 Indication of any immediate medical attention and special treatment needed

No data

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: CO₂, extinguishing powder, foam (alcohol resistant) or spray jet. Adjust extinguishing agent to materials in the immediate vicinity.

Unsuitable extinguishing media: water, fire extinguishers of Class A, B, C, other water containing substances - may react with water to release hydrogen.

5.2 Special hazards arising from the substance or mixture

During combustion, poisonous gases may form. Carbon oxides, aluminum oxides. Avoid inhaling combustion products that could pose a health risk. After igniting the material practically impossible from quenching. Fire extinguishant should be limited to isolating burnt material, eg by dry sanding with dry sand and preventing fire from spreading. Possibility of an explosion if dust cloud formation occurs, pressurized extinguishers do not direct directly on the burning substance.

5.3 Information for fire brigade

General protection measures typical in case of fire. Do not stay in a fire zone without suitable chemical-resistant and self-contained breathing apparatus. Fire-retardant containers may be cooled with a spray of water from a safe distance.

SECTION 6: ACCIDENTAL RELEASE MEASURES IN THE ENVIRONMENT

6.1 Personal precautions, protective equipment and emergency procedures

Collected packages should be collected mechanically. Collect leaks with non-combustible absorbent materials (eg sand, earth, universal binders, silica, vermiculite, etc.) and place them in labeled containers. Collected material treat as waste.

Clean and ventilate the contaminated site.

6.2 Environmental precautions

If larger quantities are to be released, steps should be taken to avoid spreading in the wild. Safeguard sewers; Do not let the product get into them. Notify the relevant emergency services.

6.3. Methods and materials for containment and cleaning up of contamination

Collect with absorbent materials (eg sand, earth, universal binders, silica, vermiculite, etc.) and place in container for disposal. Collected material treat as waste. Clean and ventilate the contaminated site.

6.4 References to other sections

For disposal of product see section 13. Personal protective equipment see section 8.



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Section 7: Handling and storage of substances and mixtures

7.1 Precautions for safe handling

Work according to safety and hygiene rules. Avoid contact with the product and inhale vapors. Wash hands before breaks and after work. Unused containers keep tightly closed. Ensure proper ventilation of the room in which the product is used. Use personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Store only in original, properly labeled, sealed packaging in a cool, dry place and well ventilated place. Protect the product from heat, ignition sources and direct sunlight. Keep away from foodstuffs, beverages, fodder. Avoid contact with water and moisture.

7.3 Specific end use (s)

Bonding all hard, rigid elements.

Section 8: Exposure controls / personal protection

8.1 Control parameters

Specifications WEL STEL DSB	2.5 mg / m ³
Metal clay, aluminum powder (unstabilized) [7429-90-5] - smoke, total dust	1.2 mg / m ³
Smoke, dust respirabilny	—

Legal basis: Dz. U. 2002, No. 217, item 1833 with later d.

Recommended monitoring procedures

Use procedures for monitoring the concentrations of hazardous components in the air and procedures for monitoring workplace air pollution - if available and justified on a given site - in accordance with relevant Polish or European Standards, taking into account the exposure conditions and appropriate measurement methodology adapted to the conditions work. Mode, type and frequency of tests and measurements should meet the requirements of the MZ Regulation dated February 2, 2011 (Journal of Laws No. 33, item 166).

Product of bisphenol A reaction with epichlorohydrin

DNEL values

Skin: 8.33 mg / kg body weight / day

Inhalation: 12.25 mg / m³

PNEC values

Sewage treatment plant: 10 mg / l

Water (fresh water): 0.006 mg / l

Sludge (fresh water): 0.0627 mg / kg d

Water (sea water): 0.0006 mg / l

Sludge (sea water): 0.00627 mg / kg dw

Soil: 0.0478 mg / kg ww

8.2. Exposure controls

Observe general safety and hygiene rules. During work do not eat, drink or smoke. Avoid skin and eye contamination. Avoid inhaling vapors. Ensure effective local ventilation at workstations and general ventilation - ensuring that the concentrations of hazardous components in the atmosphere below the exposure limits are maintained.

Hand protection and body protection Use chemical resistant gloves. Use working protective clothing. Use appropriate work clothes and work boots - chemically resistant.



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Material of gloves must be impermeable and resistant to the product. Material selection should be made taking into account breakthrough times, penetration rates and degradation. In addition, the choice of suitable gloves does not only depend on the material but also on other qualitative characteristics and varies from manufacturer to manufacturer. It is recommended to change gloves regularly and immediately replace them if any signs of wear, damage or changes in appearance (color, elasticity, shape) occur.

Eye protection

Use safety glasses.

Respiratory protection

For vapors and aerosols, use appropriate exhaust or absorbent / adsorbent equipment (class 1 / protection against gases or vapors in airborne concentrations not exceeding 0.1%, class 2 / protection against gases or vapors with airborne concentrations Class 3 / Protection against gases or vapors in airborne concentrations up to 1%). In cases where the concentration of oxygen is $\leq 17\%$. And / or max air toxicity is $\geq 1.0\%$ vol. Insulation equipment should be used.

Personal protective equipment used must comply with the requirements of the Regulation of the Minister of Economy of 28.12.2005 (Journal of Laws No. 259, item 2173) and of Directive 89/686 / EC (as amended). The employer is obliged to provide appropriate security measures for the activities and meet all the quality requirements, including their maintenance and cleaning.

Control of environmental exposure

Prevent direct leakage to sewers / surface water. Do not contaminate surface waters and ditches with chemicals or empty packaging. Spillage or uncontrolled spills into surface water should be reported to the appropriate authorities in accordance with national and local regulations. Dispose as hazardous waste in accordance with national and local regulations.

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

State of mind: viscous liquid

Color: yellow

Odor: poorly perceptible

Odor threshold: not marked

PH value: approx. 7

Melting point / freezing point: Not determined

Initial boiling point: $> 200^{\circ}\text{C}$

Flash point: $> 200^{\circ}\text{C}$

Evaporation rate: not determined

Flammability (solid, gas):

Lower / higher explosive limit: not determined

Vapor density (air = 1) not determined

Density (20°C): 1.17 g / cm³

Solubility: not soluble in water

Partition coefficient: n-octanol / water: not determined

Self-ignition temperature: $> 300^{\circ}\text{C}$

Decomposition temperature: not determined

Explosive properties: does not show

Oxidizing properties: does not show

Viscosity: not determined

9.2 Other information

No additional research.



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Section 10: Stability and reactivity

10.1 Reactivity

Reactive product. See also subsections: 10.3-10.5.

10.2 Chemical stability

With proper use and storage, the product is stable.

10.3 Possibility of hazardous reactions

Product vapors may form explosive mixtures with air.

10.4 Conditions to avoid

Avoid sources of heat and direct sunlight, temperatures above 50 ° C.

10.5 Incompatible materials

Avoid contact with strong oxidants.

10.6 Hazardous decomposition products

They are not known.

Section 11: Toxicological information

11.1 Information on toxicological effects

Toxicity of components

Product of bisphenol A reaction with epichlorohydrin

Acute oral toxicity LD50 15 000 mg / kg (rat).

Acute LC50 skin toxicity 23,000 mg / kg (rabbit).

NOAEL (oral): 50 mg / kg body weight / day

NOEAL (skin): 100 mg / kg body weight / day

Metallic clay (metallic form)

Acute Oral Toxicity LD50> 2 000 mg / kg (rat).

Acute inhalation toxicity LC50> 880 mg / kg / 4h (rat).

Product toxicity

Acute toxicity

Based on available data, classification criteria are not met.

Irritating effect

Irritating to eyes and skin. Corrosive action Based on available data, classification criteria are not met.

Sensitizing effect

May cause sensitization by skin contact. Repeated dose toxicity Based on available data, classification criteria are not met.

carcinogenicity

Based on available data, classification criteria are not met.

mutagenicity

Possible risk of irreversible effects.

Harmful for reproduction

Based on available data, classification criteria are not met.

Section 12: Ecological information

12.1 Toxicity

Toxicity of components

Product of bisphenol A reaction with epichlorohydrin

EC50 shellfish (Daphnia magna) 48h: 1.8 mg / dm³

LC50 fish (Leuciscus idus) 96h: 2.0 mg / dm³

EC50 algae 72: 11 mg / dm³

12.2 Persistence and degradability



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No data.

12.3 Bioaccumulative potential

No data.

12.4 Mobility in soil

Mobile product in soil and water.

12.5 Results of evaluation of PBT and vPvB properties

Not applicable.

12.6 Other adverse effects

This product does not affect global warming and ozone depletion.

Section 13: Disposal Considerations

13.1 Methods of waste disposal

Recommendations for the mixture:

Dispose of in accordance with local regulations. Do not enter drains. Store in original containers. If possible, recycling is preferred.

Recommendations for used packaging:

Recycle / recycle / dispose of packaging waste in accordance with applicable regulations. Only fully emptied packaging can be recycled. Do not mix with other wastes. Community legislative acts: Directives of the European Parliament and of the Council: 2008/98 / EC and 94/62 / EC National acts: U. 2001, No. 62, item 628 with later Zm., Dz. U. 2001, No. 63, item 638 with later d.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

ENVIRONMENTALLY HAZARDOUS MATERIAL, LIQUID, I.N.O.

14.2 Proper shipping name UN

3082

14.3 Transport hazard class (s)

9

14.4 Packing group

III

14.5 Environmental hazards

The product poses a threat to the environment.

14.6 Special precautions for user

When handling the load, wear personal protection equipment in accordance with section 8. Avoid water.

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

Not applicable.

SECTION 15: REGULATORY INFORMATION



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

Act of 25 February 2011 on chemical substances and mixtures thereof (Journal of Laws No. 63, item 322). Regulation of the Minister of Health of 20 April 2012 on the labeling of dangerous substances and mixtures of dangerous substances and certain mixtures (OJ 2012.445). Regulation of the Minister of Labor and Social Policy of 29 November 2002 on the highest permissible concentrations and intensities of factors harmful to health in the working environment (Journal of Laws No. 217, item 1833, as amended).

Government Declaration of 23 March 2011 on the entry into force of amendments to Annexes A and B of the European Agreement Concerning the International Carriage of Dangerous Goods by Road (ADR), done at Geneva on 30 September 1957 (Journal of Laws No. 110, item 641). Waste Act of 27 April 2001 (Journal of Laws No. 62, item 628, as amended).

Act of 11 May 2001 on packaging and packaging waste (Journal of Laws No. 63, item 638, as amended).

Regulation of the MOŚ of 27 September 2001 on the waste catalog (Journal of Laws No. 112, item 1206).

Regulation of the Minister of Economy of 21 December 2005 on essential requirements for personal protective equipment (Journal of Laws No. 259, item 2173).

Regulation of the Minister of Health of 2 February 2011 on the testing and measurement of health hazards in the working environment (Journal of Laws No. 33, item 166).

1907/2006 / EC Regulation on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45 / EC and repealing Council Regulation (EEC) No 793/93 and No 1488 / 94 as well as Council Directive 76/769 / EEC and Commission Directives 91/155 / EEC, 93/67 / EEC, 93/105 / EC and 2000/21 / EC.

1272/2008 / EC Regulation of the European Parliament and of the Council of 16 December 2008 on the classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548 / EEC and 1999/45 / EC and amending Regulation (EC) 1907/2006.

Commission Regulation of 10 August 2009 adapting to scientific and technical progress Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on the classification, labeling and packaging of substances and mixtures

453/2010 / EC Commission Regulation of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

2008/98 / EC Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives.

94/62 / EC Directive of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste.

15.2 Chemical safety assessment

Chemical safety assessment was not done.

Section 16: Other Information

Full text of R and H statements from section 3 of the card

Hazard statements

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of the reach of children.

P260 Do not breathe vapor.

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / eye protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Take out contact lenses if they are and can be easily removed. Still rinse

Clarification of abbreviations and acronyms

NDS Highest Allowed Concentration



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NDSch highest permissible instantaneous concentration
NDSP Supreme Admissible Ceiling Concentration
DSB Permissible Concentration in Biological Material
Eye Irrit. 2 Eye irritation category 2
Skin Irrit. 2 Skin irritation category 2
Skin Sens. 1 Skin sensitization category 1
Aquatic Chronic 2 Hazardous to the aquatic environment category 2
PBT Persistent, bioaccumulative and toxic substance
VPvB Substance very persistent and highly bioaccumulative

This Material Safety Data Sheet supplements the technical data sheet but does not replace it. The information contained in this document is provided in good faith and is accurate to the best of our knowledge at the time of publication. You must keep in mind the potential risks associated with the misuse of the product. The information given in this sheet does not release the user from reading and applying all the rules regarding the scope of his activity. You assume total responsibility for the actions taken to ensure product safety.

Legal information is provided to you to help you fulfill your legal obligations. List of mentioned legal regulations can not be considered complete and exhaustive. You are responsible for ensuring that you are an entity that is not subject to other laws than those listed.