SAFETY DATA SHEET



1. Identification

Product identifier MX-80

Other means of identification

CAS number 1302-78-9

Recommended useBentonite has a variety of uses. It can be used as a rheology modifier, binding agent, adsorbent,

hydraulic-barrier, and filler.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name CETCO, an MTI Company Address 2870 Forbs Avenue

Hoffman Estates, IL 60192

United States

Telephone General Information 800 527-9948

Website http://www.cetco.com/

E-mail safetydata@mineralstech.com

Emergency phone number Emergency 1.866.519.4752/1 760 476 3962

Supplier Not available.

2. Hazard identification

Physical hazards Not classified.

Health hazards Carcinogenicity Category 1A

Specific target organ toxicity, repeated Category 1

exposure

Environmental hazards Not classified.

Label elements



Signal word Danger

Hazard statement May cause cancer. Causes damage to organs through prolonged or repeated exposure.

Precautionary statement

Prevention Keep out of reach of children. Read label before use. Obtain special instructions before use. Do

not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear

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

Response If medical advice is needed, have product container or label at hand. IF SWALLOWED: Call a

POISON CENTER/doctor// if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. IF exposed or concerned: Call a POISON CENTER/doctor/. If skin irritation occurs: Get medical

advice/attention. Take off contaminated clothing and wash before reuse.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Other hazards Material can be slippery when wet

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Material name: MX-80 SDS CANADA

Chemical name	Common name and synonyms	CAS number	%
QUARTZ (SIO2)		14808-60-7	6
CRISTOBALITE		14464-46-1	2
Other components below re	eportable levels		92

Other components below reportable levels

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret. #: This substance has been assigned Community workplace exposure limit(s).

Composition comments

Bentonite contains naturally occurring crystalline silica (not listed in Annex I of Directive 67/548/EEC) in quantities less than 6%. Not applicable to consumer products. Occupational Exposure Limits for constituents are listed in Section 8. The full text for all R- and H-phrases is displayed in section 16.

4. First-aid measures

Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention, if needed. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing. Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Wash with plenty of soap and water. Wash off with soap and water. Rinse skin with water/shower. Get medical attention immediately. Get medical attention if irritation develops and persists. If skin irritation occurs: Get medical advice/attention. For minor skin contact, avoid spreading material on unaffected skin. Wash contaminated clothing before reuse. Wash clothing separately before reuse.

Eye contact

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Rinse with water. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Continue rinsing. Get medical attention immediately. Get medical attention if irritation develops and persists.

Ingestion

Rinse mouth. Rinse mouth thoroughly. If ingestion of a large amount does occur, call a poison control center immediately. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delaved

Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

media

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

Use any media suitable for the surrounding fires.

Not applicable, non-combustible.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Material can be slippery when wet. Firefighters should wear full protective gear.

Fire fighting equipment/instructions Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards This material will not burn. Material can be slippery when wet No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Material can be slippery when wet. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. Wear a dust mask if dust is generated above exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

Large Spills: Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers. Collect dust using a vacuum cleaner equipped with HEPA filter.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Provide adequate ventilation. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use personal protective equipment as required. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash thoroughly after handling. Avoid release to the environment. Handle and open container with care. Observe good industrial hygiene practices. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Keep container tightly closed. Store in a well-ventilated place. Keep out of the reach of children. Use care in handling/storage.

Value

0.025 mg/m3

Form

Respirable fraction.

8. Exposure controls/personal protection

Occupational exposure limits

Components

14464-46-1)

CRISTOBALITE (CAS

US.	ACGIH	Thresho	old Li	mit V	'alues

Components	Туре	Value	Form
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Alberta OELs (Occupat	ional Health & Safety Code, Sch	edule 1, Table 2)	
Components	Туре	Value	Form
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable.
		0.025 mg/m3	Respirable particles.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable particles.
Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	3 mg/m3	Respirable particles.
		10 mg/m3	Total particulate.

Material name: MX-80 SDS CANADA

Type

TWA

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and
Safety Regulation 296/97, as amended)

Components	Туре	Value	Form
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Constituents	Туре	Value	Form
INERT OR NUISANCE DUSTS (CAS SEQ250)	TWA	3 mg/m3	Respirable fraction.
		10 mg/m3	Total dust.
Canada. Manitoba OELs (Reg. 21	17/2006, The Workplace Safety Ai	nd Health Act)	
Components	Туре	Value	Form
CRISTOBALITE (CAS 14464-46-1)	TWA	0.025 mg/m3	Respirable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.025 mg/m3	Respirable fraction.
Canada. Ontario OELs. (Control	of Exposure to Biological or Che	mical Agents)	
Components	Туре	Value	Form
CRISTOBALITE (CAS 14464-46-1)	TWA	0.05 mg/m3	Respirable fraction.
QUARTZ (SIO2) (CAS 14808-60-7)	TWA	0.1 mg/m3	Respirable fraction.
Constituents	Туре	Value	Form
	TWA	3 mg/m3	Respirable fraction.
	TWA	· ·	·
	TWA	3 mg/m3 10 mg/m3	Respirable fraction.
DUSTS (CAS SEQ250) Canada. Quebec OELs. (Ministry	າ of Labor - Regulation respecting	10 mg/m3 occupational health and sa	Inhalable fraction.
DUSTS (CAS SEQ250) Canada. Quebec OELs. (Ministry Components	າ of Labor - Regulation respecting Type	10 mg/m3 occupational health and sa Value	Inhalable fraction.
DUSTS (CAS SEQ250) Canada. Quebec OELs. (Ministry Components CRISTOBALITE (CAS 14464-46-1)	າ of Labor - Regulation respecting	10 mg/m3 occupational health and sa Value 0.05 mg/m3	Inhalable fraction.
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INERT OR NUISANCE DUSTS (CAS SEQ250) Canada. Quebec OELs. (Ministry Components CRISTOBALITE (CAS 14464-46-1) QUARTZ (SIO2) (CAS 14808-60-7) Constituents	of Labor - Regulation respecting Type TWA	10 mg/m3 occupational health and sa Value 0.05 mg/m3	Inhalable fraction. fety) Form Respirable dust.
Canada. Quebec OELs. (Ministry Components CRISTOBALITE (CAS 14464-46-1) QUARTZ (SIO2) (CAS 14808-60-7) Constituents INERT OR NUISANCE	of Labor - Regulation respecting Type TWA TWA	10 mg/m3 y occupational health and save Value 0.05 mg/m3 0.1 mg/m3	Inhalable fraction. fety) Form Respirable dust. Respirable dust.
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Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). If contact is likely, safety glasses with side

shields are recommended. Eye wash fountain is recommended.

Skin protection

Hand protection Suitable gloves can be recommended by the glove supplier. Not normally needed.

Other Wear appropriate chemical resistant clothing. Wear chemical protective equipment that is

specifically recommended by the manufacturer. It may provide little or no thermal protection. Use

of protective coveralls and long sleeves is recommended.

Respiratory protection In the case of respirable dust and/or fumes, use self-contained breathing apparatus. Dust mask. In

case of inadequate ventilation, use respiratory protection.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance Lump, granular or fine powder.

Physical state Solid.

Form Powder. Various.

Color Various.

Odor None.

Odor threshold Not applicable.

pH 8.5 - 11

Melting point/freezing point > 842 °F (> 450 °C) / Not applicable.

Initial boiling point and boiling

range

Not applicable.

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) This product is not flammable.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not applicable.

Flammability limit - lower

(%) temperature

Not applicable.

Flammability limit - upper

(%)

Not applicable.

Flammability limit - upper

(%) temperature

temperature

Not applicable.

Explosive limit - lower (%)

Not applicable.

Explosive limit - lower (%)

Not applicable.

Explosive limit - upper (%)
Explosive limit - upper (%)

Not applicable.

Not applicable.

temperature

re

Vapor pressureNot applicable.Vapor densityNot applicable.Relative density2.6 g/cm³

Material name: MX-80 SDS CANADA

Solubility(ies)

Solubility (water) < 0.9 mg/l

Partition coefficient Not applicable.

(n-octanol/water)

Auto-ignition temperature Not applicable.

Decomposition temperature > 932 °F (> 500 °C)

Viscosity Not applicable.
Viscosity temperature Not applicable.

Other information

Bulk density 0.9 - 1.4 g/cm³ **Explosive limit** Not applicable.

Explosive properties Not explosive. Not explosive

Explosivity
Not applicable.

Fire point
Not applicable.

Flame extension
Not applicable.

Flammability
Not applicable.

Flammability
Not applicable.

Flammability (flash back)
Not applicable.

Flammability (Heat of
Not applicable.

combustion)

Flammability (Train fire)

Flammability class

Flash point class

Molecular formula

Molecular weight

Oxidizing properties

Not applicable.

Not applicable.

Not applicable.

Not oxidizing. None.

Percent volatile 0 % pH in aqueous solution 8.5 - 11

Specific gravity Not applicable.

VOC 0 %

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the decomposition temperature. Contact with incompatible

materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation. Dust may

irritate respiratory system. Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. Dust or powder may irritate the skin.

Eye contact Dust may irritate the eyes. Direct contact with eyes may cause temporary irritation.

Ingestion May cause discomfort if swallowed. Expected to be a low ingestion hazard. However, ingestion is

not likely to be a primary route of occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain.

Acute toxicity

Test Results Components **Species**

CRISTOBALITE (CAS 14464-46-1)

Acute Oral

LD50 Rat > 22500 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Causes skin irritation. Due to partial or

complete lack of data the classification is not possible.

Serious eve damage/eve

irritation

Direct contact with eyes may cause temporary irritation. Due to partial or complete lack of data the

classification is not possible. None known.

Respiratory or skin sensitization

Canada - Alberta OELs: Irritant

CRISTOBALITE (CAS 14464-46-1) Irritant

Respiratory sensitization Not a respiratory sensitizer. Due to partial or complete lack of data the classification is not

possible.

None known. This product is not expected to cause skin sensitization. Due to partial or complete Skin sensitization

lack of data the classification is not possible.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic. Due to partial or complete lack of data the classification is not possible.

In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded Carcinogenicity

that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable

dust and respirable crystalline silica should be monitored and controlled. Due to partial or

complete lack of data the classification is not possible.

ACGIH Carcinogens

CRISTOBALITE (CAS 14464-46-1) A2 Suspected human carcinogen. QUARTZ (SIO2) (CAS 14808-60-7) A2 Suspected human carcinogen.

Canada - Alberta OELs: Carcinogen category

CRISTOBALITE (CAS 14464-46-1) Suspected human carcinogen. QUARTZ (SIO2) (CAS 14808-60-7) Suspected human carcinogen.

Canada - Manitoba OELs: carcinogenicity

CRISTOBALITE (CAS 14464-46-1) Suspected human carcinogen. QUARTZ (SIO2) (CAS 14808-60-7) Suspected human carcinogen.

Canada - Quebec OELs: Carcinogen category

CRISTOBALITE (CAS 14464-46-1) Detected carcinogenic effect in animals. QUARTZ (SIO2) (CAS 14808-60-7) Suspected carcinogenic effect in humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

CRISTOBALITE (CAS 14464-46-1) 1 Carcinogenic to humans. QUARTZ (SIO2) (CAS 14808-60-7) 1 Carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

CRISTOBALITE (CAS 14464-46-1) Known To Be Human Carcinogen.

Reasonably Anticipated to be a Human Carcinogen.

QUARTZ (SIO2) (CAS 14808-60-7) Known To Be Human Carcinogen.

Not classified. This product is not expected to cause reproductive or developmental effects. Due to Reproductive toxicity

partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible. Not classified.

Specific target organ toxicity -

Not classified. Causes damage to organs through prolonged or repeated exposure. Due to partial

or complete lack of data the classification is not possible. repeated exposure

Aspiration hazard Not an aspiration hazard. Due to partial or complete lack of data the classification is not possible.

^{*} Estimates for product may be based on additional component data not shown.

Chronic effects Not expected to be hazardous by WHMIS criteria. Causes damage to organs through prolonged

or repeated exposure. Prolonged inhalation may be harmful.

Further information This product has no known adverse effect on human health.

12. Ecological information

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment. Not expected to

be harmful to aquatic organisms. The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or

damaging effect on the environment.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Contract with a disposal operator licensed by the Law on Disposal and Cleaning. Do not allow this

material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose in accordance with all applicable regulations. Dispose of contents/container (in accordance with related regulations). When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed

industrial waste management professional with manifests for industrial waste.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste codeThe waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions). Not applicable.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

TDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the SDS

contains all the information required by the CPR.

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Precursor Control Regulations

Not regulated.

International regulationsThe product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The product does not need to be labelled in accordance with EC directives or respective national laws. Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH). Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

Country(s) or region

International Inventories

, , <u> </u>		<i>y</i> (<i>y</i> ,
Australia	Australian Inventory of Industrial Chemicals (AICIS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No

Taiwan Chemical Substance Inventory (TCSI)

Inventory name

No No

On inventory (yes/no)*

Toxic Substances Control Act (TSCA) Inventory

16. Other information

Issue date 22-July-2018
Revision date 14-December-2021

Version # 04

United States & Puerto Rico

Further information HMIS® is a registered trade and service mark of the NPCA.

Material name: MX-80 SDS CANADA

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

References

ACGIH

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

IARC Monographs. Overall Evaluation of Carcinogenicity National Toxicology Program (NTP) Report on Carcinogens

NLM: Hazardous Substances Data Base

US. IARC Monographs on Occupational Exposures to Chemical Agents

Korea. Accidental Release Prevention Substances (Presidential Decree of Toxic Chemical Control Law, Executive Order No. 19203)

Korea. Dangerous Substances Threshold Quantity (Presidential Decree of Dangerous Substances Safety Management Act No. 18406, Schedule 1)

Korea. Harmful Substances Prohibited from Manufacturing (Presidential Decree on the Industrial Safety and Health Act (No. 13053), Article 29)

Korea. Harmful Substances Requiring Permission for Manufacture or Use (Presidential Decree on the Industrial Safety and Health Act (No. 13053), Article 30)

Korea. Non-Toxic Chemicals List (National Institute of Environment Research (NIER) Public Notice No. 1997-10, as amended)

Korea. Observational Chemicals (Ministerial Decree of TCCL Article 6)

Korea. OELs. Regulation for Permitted Concentration of Hazardous Substances (Ministry of Labor (MOL) Public Notice No. 1986-45, as amended)

Korea. Prohibited Chemical Substances (TCCL Article 11)

Korea. Regulated volatile organic compounds (VOCs) (MOE Notice No. 2001-36, March 8, 2001, as amended)

Korea. Restricted Chemical Substances (TCCL Article 11)

Korea. Toxic Chemical Control Law (TCCL), Existing Chemicals Inventory (KECI)

Korea. Toxic Chemical Control Law (TCCL), pre-1997 List

Korea. Toxic Chemicals (TCCL Article 10)

Korea. Toxic Release Inventory (TRI) Chemicals (TCCL Article 14)

Taiwan. Dangerous Materials (Rules on Hazard Communication of Dangerous Materials and Toxic Materials)

Taiwan. Industrial Precursor Chemicals (Categories and Regulations Governing Inspection and Declaration of Industrial Precursor Chemicals, MOEA Decree No. 87, as amended)

Taiwan. OELs. (Standards on Workplace Atmosphere of Dangerous and Hazardous Materials) Taiwan. Toxic Chemical Substances (TCS) (List of Toxic Chemical Substances announced by the Environmental Protection Administration)

Taiwan. Toxic Materials (Rules on Hazard Communication of Dangerous Materials and Toxic Materials)

Japan Society for Occupational Health, Recommendation of Occupational Exposure Limits Japan Chemical Industry Association (JCIA) GHS Guideline, June 2012

JIS Z 7252:2014 Classification of chemicals based on "Globally Harmonized System of Classification and Labelling of Chemicals (GHS)"

JIS Z 7253:2012 Hazard communication of chemicals based on GHS – Labelling and Safety Data Sheet (SDS)

GOST 30333-2007 Chemical production safety passport. General requirements.

GOST 31340-2013 Labeling of chemicals. General requirements.

GOST 32419-2013 Classification of chemical products. General requirements.

GOST 32424-2013 Classification of chemicals for environmental hazards. General principles.

GOST 12.1.007-76 Occupational safety standard system. Noxious substances. Classification and general safety requirements.

GOST 12.1.044-89. Occupational safety standards system. Fire and explosion hazard of substances and materials. Nomenclature of substances and materials. Nomenclature of indices and methods of their determination.

GOST 19433-88. Dangerous goods. Classification and marking.

GOST 12.1.004-91. Occupational safety standards system. Fire safety. General requirements.

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Revision information

Product and Company Identification: Alternate Trade Names

Disposal considerations: Disposal instructions