

SAFETY DATA SHEET

1. Identification

Product identifier Yellow Brass Alloys

Other means of identification

SDS number 13

C85200, C85300, C85400, C85500, C85700, C85800, C36000 **Product code**

Recommended use Manufacturing **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Concast Metal Products Company

Address 14315 State Route 113, Birmingham, OH 44816

Telephone 1-440-965-4455 E-mail sales@concast.com 1-800-424-9300 **Emergency phone number**

Chemtrec (24-hrs)

2. Hazard(s) identification

Physical hazards Not classified.

Sensitization, skin Category 1 **Health hazards**

> Carcinogenicity Category 2 Reproductive toxicity Category 1A

Reproductive toxicity Effects on or via lactation

Specific target organ toxicity, repeated Category 1 (blood, central nervous system,

exposure

kidneys, Lungs)

Category 1

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

long-term hazard

Category 1

OSHA defined hazards Combustible dust

Label elements







Signal word Danger

Hazard statement May form combustible dust concentrations in air. May cause an allergic skin reaction. Suspected

of causing cancer. May damage fertility or the unborn child. May cause harm to breast-fed children. Causes damage to organs (blood, central nervous system, kidneys, Lungs) through

prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Prevent dust accumulation to minimize explosion hazard. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond

container and receiving equipment. Do not breathe dust/fume. Avoid contact during

pregnancy/while nursing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eve protection/face protection.

Observe good industrial hygiene practices.

Response If on skin: Wash with plenty of water. If exposed or concerned: Get medical advice/attention. If

skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before

reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.

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Version #: 03 Storage Store locked up.

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

Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information 1.5% of the mixture consists of component(s) of unknown acute dermal toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Copper	7440-50-8	58 - 64
Zinc	7440-66-6	32 - 41
Lead	7439-92-1	0.8 - 1.5
Tin	7440-31-5	0.5 - 1.5
Nickel	7440-02-0	0 - 1

Composition comments

All concentrations are in percent by weight unless otherwise indicated.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. In case of contact with hot or molten product, cool rapidly with water and seek immediate medical attention. Do not attempt to remove molten product from skin because skin will tear easily. Cuts or

abrasions should be treated promptly with thorough cleansing of the affected area.

Eye contact Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and

delayed

Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye, mucous membranes and respiratory tract. Narcosis. Behavioral changes. Decrease in motor functions. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects. Contact with hot material can cause thermal burns which may result in permanent damage.

Indication of immediate medical attention and special treatment needed

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

General information

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. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Special powder against metal fires. Dry sand. Carbon dioxide (CO2). Apply extinguishing media carefully to avoid creating airborne dust. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

Unsuitable extinguishing media

Do not use water or halogenated extinguishing media. Hot molten material will react violently with water resulting in spattering and fuming.

Specific hazards arising from the chemical

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. Contact with acids will release flammable hydrogen gas. During fire, gases hazardous to health may be formed. Combustion products may include: metal oxides. In a fire, nickel may form nickel carbonyl, a highly toxic substance and known carcinogen. Upon combustion, this product may yield toxic vapors/fumes of lead and lead compounds.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

so without risk.

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do

Specific methods
General fire hazards

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

May form combustible dust concentrations in air.

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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of fumes from heated product. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). The product is immiscible with water and will sediment in water systems. Stop the flow of material, if this is without risk. Allow molten material to cool and solidify before disposal. Recover and recycle, if practical.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. 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. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation.

Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated S Components	Substances (29 CFR 1910.1001-1053) Type	Value	
Lead (CAS 7439-92-1)	TWA	0.05 mg/m3	
US. OSHA Table Z-1 Limits for Air Components	Contaminants (29 CFR 1910.1000) Type	Value	Form
Copper (CAS 7440-50-8)	PEL	1 mg/m3	Dust and mist.
		0.1 mg/m3	Fume.
Nickel (CAS 7440-02-0)	PEL	1 mg/m3	
Tin (CAS 7440-31-5)	PEL	2 mg/m3	
US. ACGIH Threshold Limit Values Components	Туре	Value	Form
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.
		0.2 mg/m3	Fume.
Lead (CAS 7439-92-1)	TWA	0.05 mg/m3	
Nickel (CAS 7440-02-0)	TWA	1.5 mg/m3	Inhalable fraction.

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US. ACGIH Threshold Limit Values				
Components	Туре	Value	Form	
Tin (CAS 7440-31-5)	TWA	2 mg/m3		
US. NIOSH: Pocket Guide to Chemical Hazards				
Components	Type	Value	Form	
Copper (CAS 7440-50-8)	TWA	1 mg/m3	Dust and mist.	
Lead (CAS 7439-92-1)	TWA	0.05 mg/m3		
Nickel (CAS 7440-02-0)	TWA	0.015 mg/m3		
Tin (CAS 7440-31-5)	TWA	2 mg/m3		

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Lead (CAS 7439-92-1)	200 μg/l	Lead	Blood	*

^{* -} For sampling details, please see the source document.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation 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.

Individual protection measures, such as personal protective equipment

Unvented, tight fitting goggles should be worn in dusty areas. Use of safety glasses or goggles is Eye/face protection

required for welding, burning, sawing, brazing, grinding or machining operations. When welding, it is recommended that safety glasses, goggles, or face-shield with filter lens of appropriate shade number (per ANSI Z49.1-1988, "Safety in Welding and Cutting") be worn.

Skin protection

Hand protection Wear suitable protective gloves to prevent cuts and abrasions. When material is heated, wear

gloves to protect against thermal burns. Suitable gloves can be recommended by the glove

supplier.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Wear NIOSH approved respirator appropriate for airborne exposure at the

point of use. Appropriate respirator selection should be made by a qualified professional.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. 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. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state Solid.

Tubes, Solids & Turnings. **Form**

Color Yellow. Odor None

Odor threshold Not available. Not available. pН Melting point/freezing point 1725.8 °F (941 °C) Initial boiling point and boiling Not available.

range

Not available. Flash point **Evaporation rate** Not available.

Flammability (solid, gas) Fine particles may form explosive mixtures with air.

SDS US Yellow Brass Alloys 3257 Version #: 03 4/9 Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Not available. Vapor pressure Not available. Vapor density

Relative density 8.5

Solubility(ies)

Solubility (water) Insoluble in water. Partition coefficient Not available.

(n-octanol/water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** Not available.

Other information

Bulk density 0.3 lb/in3 Not explosive. **Explosive properties** Oxidizing properties Not oxidizing.

10. Stability and reactivity

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

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

Contact with strong acids will release highly flammable hydrogen gas.

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with

incompatible materials. Minimize dust generation and accumulation.

Incompatible materials Strong oxidizing agents. Acids.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful. Elevated temperatures or mechanical action may form dust

> and fumes which may be irritating to the mucous membranes and respiratory tract. Heating above the melting point releases metallic oxides which may cause metal fume fever by inhalation. The

symptoms are shivering, fever, malaise and muscular pain.

May cause an allergic skin reaction. Hot or molten material may produce thermal burns. Skin contact

Elevated temperatures or mechanical action may form dust and fumes which may be irritating to Eye contact

the eyes. Molten material will produce thermal burns.

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye, mucous membranes and respiratory tract. Narcosis. Behavioral changes. Decrease in motor functions. May cause an allergic skin reaction. Dermatitis. Rash. Contact with hot material

can cause thermal burns which may result in permanent damage.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components **Species Test Results** Nickel (CAS 7440-02-0)

Acute Inhalation

NOAEC

Rat 10200 mg/l, 1 hours

Oral

LD50 Rat > 9000 mg/kg

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Species Test Results Components

Zinc (CAS 7440-66-6)

Acute Oral

LD50 Mouse > 5 g/kg

May cause irritation through mechanical abrasion. Hot or molten material may produce thermal Skin corrosion/irritation

hurns

Serious eye damage/eye

irritation

May cause irritation through mechanical abrasion.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

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

mutagenic or genotoxic.

Suspected of causing cancer. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Lead (CAS 7439-92-1) 2B Possibly carcinogenic to humans. Nickel (CAS 7440-02-0) 2B Possibly carcinogenic to humans.

NTP Report on Carcinogens

Lead (CAS 7439-92-1) Reasonably Anticipated to be a Human Carcinogen. Nickel (CAS 7440-02-0) Reasonably Anticipated to be a Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

May cause harm to breastfed babies. May damage fertility or the unborn child. Reproductive toxicity

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

Causes damage to organs (blood, central nervous system, kidneys, Lungs) through prolonged or

repeated exposure.

Not an aspiration hazard. **Aspiration hazard**

Chronic effects Prolonged exposure may cause chronic effects.

Not classified.

Lead may produce maternal toxicity, toxicity to the fetus, and adverse effects to blood, bone

marrow, central/peripheral nervous systems, kidney, liver, and reproductive system.

Welding or plasma arc cutting of metal and alloys can generate ozone, nitric oxides and ultraviolet **Further information**

radiation. Short-term (acute) overexposure to welding fumes may result in discomfort such as metal fume fever, dizziness, nausea, or dryness or irritation of nose, throat, or eyes. May aggravate pre-existing respiratory problems (e.g. asthma, emphysema). Ozone overexposure may result in mucous membrane irritation or pulmonary discomfort. UV radiation can cause skin

erythema and welders flash.

12. Ecological information

Crustacea

Fish

Ecotoxicity Very toxic to aquatic life with long lasting effects. Alloys in massive forms present a limited hazard

for the environment.

Components **Species Test Results** Copper (CAS 7440-50-8) **Aquatic** Chronic Other NOEC Juga plicifera 6 µg/l Lead (CAS 7439-92-1) Aquatic Acute

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Ceriodaphnia dubia

Pimephales promelas

FC50

LC50

0.248 mg/l, 48 hours pH8

0.283 mg/l, 96 hours pH8

Species Test Results Components

Nickel (CAS 7440-02-0)

Aquatic

Chronic

NOEC Crustacea Ceriodaphnia dubia 2.8 µg/l Fish NOEC Zebra danio (Danio rerio) 40 µg/l

Zinc (CAS 7440-66-6)

Aquatic

Acute

EC50 Crustacea Daphnia magna $0.07 \, \text{mg/l}$ Fish LC50 0.14 mg/l Oncorhynchus mykiss

Persistence and degradability

Not relevant for inorganic substances.

Bioaccumulative potential Mobility in soil

The product contains potentially bioaccumulating substances. Alloys in massive forms are not mobile in the environment.

Other adverse effects

This product contains one or more substances identified as hazardous air pollutants (HAPs) per

the US Federal Clean Air Act (see section 15).

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The 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).

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

DOT

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

15. Regulatory information

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication **US federal regulations**

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Copper (CAS 7440-50-8) Listed. Lead (CAS 7439-92-1) Listed. Nickel (CAS 7440-02-0) Listed. Zinc (CAS 7440-66-6) Listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Lead (CAS 7439-92-1) Reproductive toxicity Central nervous system

Yellow Brass Alloys SDS US Kidney Blood Acute toxicity

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

Classified hazard

Combustible dust

categories

Respiratory or skin sensitization

Carcinogenicity Reproductive toxicity

Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Copper	7440-50-8	58 - 64	
Lead	7439-92-1	0.8 - 1.5	
Nickel	7440-02-0	0 - 1	
Zinc	7440-66-6	32 - 41	

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Lead (CAS 7439-92-1) Nickel (CAS 7440-02-0)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Contains component(s) regulated under the Safe Drinking Water Act.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Copper (CAS 7440-50-8) Lead (CAS 7439-92-1) Nickel (CAS 7440-02-0) Tin (CAS 7440-31-5)

Zinc (CAS 7440-66-6)

US. New Jersey Worker and Community Right-to-Know Act

Copper (CAS 7440-50-8) Lead (CAS 7439-92-1)

Nickel (CAS 7440-02-0)

Tin (CAS 7440-31-5)

Zinc (CAS 7440-66-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Copper (CAS 7440-50-8)

Lead (CAS 7439-92-1)

Nickel (CAS 7440-02-0)

Tin (CAS 7440-31-5)

Zinc (CAS 7440-66-6)

US. Rhode Island RTK

Copper (CAS 7440-50-8)

Lead (CAS 7439-92-1)

Nickel (CAS 7440-02-0)

Tin (CAS 7440-31-5)

Zinc (CAS 7440-66-6)

California Proposition 65



WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Lead (CAS 7439-92-1) Listed: October 1, 1992 Nickel (CAS 7440-02-0) Listed: October 1, 1989

Yellow Brass Alloys SDS US California Proposition 65 - CRT: Listed date/Developmental toxin

Lead (CAS 7439-92-1) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Female reproductive toxin

Lead (CAS 7439-92-1) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Male reproductive toxin

Inventory name

Lead (CAS 7439-92-1) Listed: February 27, 1987

Domestic Substances List (DSL)

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Copper (CAS 7440-50-8) Lead (CAS 7439-92-1) Nickel (CAS 7440-02-0) Tin (CAS 7440-31-5) Zinc (CAS 7440-66-6)

International Inventories

Australia

Canada

Country(s) or region

Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes

Australian Inventory of Chemical Substances (AICS)

(PICCS)

Taiwan Chemical Substance Inventory (TCSI) Taiwan No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

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).

16. Other information, including date of preparation or last revision

19-November-2012 Issue date **Revision date** 29-October-2018

Version #

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the **Further information**

Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

Health: 3* **HMIS®** ratings

Flammability: 2 Physical hazard: 0

NFPA ratings



Disclaimer Concast Metal Products Company cannot anticipate all conditions under which this information

and its product, or the products of other manufacturers in combination with its product. may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently

available.

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On inventory (yes/no)*

Yes

Yes

^{*}A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).