SAFETY DATA SHEET



MBF 2005 and 2007

Section 1. Identification

: MBF 2005 and 2007 **GHS** product identifier

Product code : Not available.

Other means of identification

: Amorphous Braze Foil

Product type : Massive metal.

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

Product use : Brazing.

Area of application : Industrial applications.

Supplier's details : Metglas, Inc.

440 Allied Drive, Conway, SC 29526 United States

Telephone: 843-349-6800

www.metglas.com

e-mail address of person

responsible for this SDS

: john.schwindel@metglas.com and william.coughlan@metglas.com

Emergency telephone number (with hours of

operation)

: Manufacturer: 800-581-7654 (24/7) CHEMTREC: 800-424-9300 (24/7)

Section 2. Hazards identification

OSHA/HCS status

: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : H317 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 H351

H372 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) -

Category 1

GHS label elements

Hazard pictograms





Signal word : Danger

Hazard statements : H317 - May cause an allergic skin reaction.

H351 - Suspected of causing cancer.

H372 - Causes damage to organs through prolonged or repeated exposure. (respiratory

tract)

Precautionary statements

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Section 2. Hazards identification

Prevention : P201 - Obtain special instructions before use.

P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.

P260 - Do not breathe dust.

P270 - Do not eat, drink or smoke when using this product.

: P308 + P313 - IF exposed or concerned: Get medical advice or attention. Response

P363 - Wash contaminated clothing before reuse.

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

Storage : Not applicable.

Disposal P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

Hazards not otherwise

classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification

: Amorphous Braze Foil

Ingredient name	Other names	%	CAS number
copper	-	70 - 80	7440-50-8
tin	-	7 - 11	7440-31-5
white phosphorus	-	5 - 9	7723-14-0
Nickel	-	4 - 8	7440-02-0
zinc oxide	-	0 - 0.5	1314-13-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health and hence require reporting in this section.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Get medical attention.

Inhalation : Not applicable.

Skin contact : Wash with plenty of soap and water. Wash contaminated clothing thoroughly with water

before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure.

Cuts should be treated promptly and covered.

Ingestion : Not applicable.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Not applicable. Inhalation : Not applicable.

Skin contact : May cause an allergic skin reaction.

Ingestion : Not applicable.

Over-exposure signs/symptoms

Eye contact : No specific data. Inhalation : No specific data.

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Section 4. First aid measures

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

: Do not use water jet.

Specific hazards arising from the chemical

Hazardous thermal

decomposition products

: No specific fire or explosion hazard.

 Decomposition products may include the following materials: phosphorus oxides

metal oxide/oxides Vapor (Toxic)

Special protective actions

for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: No special protection is required.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Put on appropriate personal protective equipment.

For emergency responders:

: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

Environmental precautions: No specific hazard.

Methods and materials for containment and cleaning up

Small spill : Restack safely. Take care with items that are sharp or heavy.

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Section 6. Accidental release measures

Large spill

: Restack safely. Take care with items that are sharp or heavy. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Take care with items that are sharp or heavy.

Advice on general occupational hygiene

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store locked up. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
copper	ACGIH TLV (United States, 3/2019). TWA: 1 mg/m³, (as Cu) 8 hours. Form: Dust and mist TWA: 0.2 mg/m³ 8 hours. Form: Fume NIOSH REL (United States, 10/2016).
	TWA: 1 mg/m³, (as Cu) 10 hours. Form: Dusts and Mists OSHA PEL (United States, 5/2018). TWA: 1 mg/m³ 8 hours. Form: Dusts and Mists TWA: 0.1 mg/m³ 8 hours. Form: Fume
tin	ACGIH TLV (United States, 3/2019). TWA: 2 mg/m³, (as Sn) 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2016). TWA: 2 mg/m³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 2 mg/m³, (as Sn) 8 hours.
white phosphorus	OSHA PEL (United States, 5/2018). TWA: 0.1 mg/m³ 8 hours. NIOSH REL (United States, 10/2016). TWA: 0.1 mg/m³ 10 hours.
Nickel	ACGIH TLV (United States, 3/2019). TWA: 1.5 mg/m³ 8 hours. Form: Inhalable fraction NIOSH REL (United States, 10/2016). TWA: 0.015 mg/m³, (as Ni) 10 hours. OSHA PEL (United States, 5/2018). TWA: 1 mg/m³, (as Ni) 8 hours.
zinc oxide	NIOSH REL (United States, 10/2016). CEIL: 15 mg/m³ Form: Dust

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Section 8. Exposure controls/personal protection

TWA: 5 mg/m³ 10 hours. Form: Dust and fumes STEL: 10 mg/m³ 15 minutes. Form: Fume OSHA PEL (United States, 5/2018).

TWA: 5 mg/m³ 8 hours. Form: Fume

TWA: 5 mg/m³ 8 hours. Form: Respirable fraction TWA: 15 mg/m³ 8 hours. Form: Total dust

ACGIH TLV (United States, 3/2019).

TWA: 2 mg/m³ 8 hours. Form: Respirable fraction STEL: 10 mg/m³ 15 minutes. Form: Respirable

fraction

Appropriate engineering controls

: No special ventilation requirements. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

: Not applicable.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing.

Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Wash thoroughly after handling.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-

shields.

Skin protection

Hand protection: Use strong, cut-resistant gloves suitable for handling metals.

Body protection: Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before

handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

Respiratory protection: Not applicable.

Section 9. Physical and chemical properties

Appearance

Physical state : Solid. [foil]

Color : Metallic-gray./bronze.

Odor : Odorless.
Odor threshold : Not available.

pH : Not applicable.

Melting point : 625°C (1157°F)

Boiling point : Not applicable.

Flash point : Not applicable.

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Section 9. Physical and chemical properties

Evaporation rate : Not available. Flammability (solid, gas) : Not available. Lower and upper explosive : Not applicable.

(flammable) limits

Vapor pressure : Not available. Vapor density : Not available. : 8 to 8.5 [Water = 1] Relative density : Not available.

Density

Solubility : Insoluble in the following materials: cold water and hot water.

Partition coefficient: n-

octanol/water

: Not available.

Auto-ignition temperature : Not available. **Decomposition temperature** : Not applicable. **SADT** : Not available. **Viscosity** Not available. Flow time (ISO 2431) : Not available.

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous polymerization will not occur.

Conditions to avoid : No specific data.

Incompatible materials : Reactive or incompatible with the following materials: moisture.

Corrosive material

Hazardous decomposition

products

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
copper	LC50 Inhalation Dusts and mists	,	>5.11 mg/l	4 hours
tin	LC50 Inhalation Dusts and mists	Female Rat - Male, Female	>4.75 mg/l	4 hours
	LD50 Dermal	Rat - Male,	>2000 mg/kg	-
	LD50 Oral		>2000 mg/kg	-
white phosphorus zinc oxide	LC50 Inhalation Dusts and mists		>10 g/kg >5.7 mg/l	4 hours
	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
zinc oxide	Eyes - Mild irritant	Rabbit		24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Not available.

Mutagenicity

Conclusion/Summary: Not available.

Carcinogenicity

Conclusion/Summary: Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Nickel	-	1	Reasonably anticipated to be a human carcinogen.

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Nickel	Category 1	inhalation	respiratory tract

Aspiration hazard

Not available.

Information on the likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : Not applicable.

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Section 11. Toxicological information

Inhalation : Not applicable.

Skin contact: May cause an allergic skin reaction.

Ingestion : Not applicable.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : No

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : Causes damage to organs through prolonged or repeated exposure. Once sensitized, a

severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of

exposure.

Mutagenicity: No known significant effects or critical hazards.

Reproductive toxicity :

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
MBF 2005 and 2007	N/A	3333.3	N/A	N/A	N/A
tin	2500	2500	N/A	N/A	N/A
white phosphorus	5	N/A	N/A	N/A	0.05
zinc oxide	N/A	2500	N/A	N/A	N/A

Other information : Adverse symptoms may include the following: Metal fume fever if exposed to high

concentration of fumes.

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Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
copper	Acute EC50 1100 μg/l Fresh water Acute EC50 2.1 μg/l Fresh water	Aquatic plants - Lemna minor Daphnia - Daphnia longispina - Juvenile (Fledgling, Hatchling, Weanling)	4 days 48 hours
	Acute IC50 13 μg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute IC50 5.4 mg/l Marine water	Aquatic plants - Plantae - Exponential growth phase	72 hours
	Acute LC50 0.072 µg/l Marine water	Crustaceans - Amphipoda - Adult	48 hours
	Acute LC50 7.56 µg/l Marine water	Fish - Periophthalmus waltoni - Adult	96 hours
	Chronic NOEC 2.5 µg/l Marine water	Algae - Nitzschia closterium - Exponential growth phase	72 hours
	Chronic NOEC 7 mg/l Fresh water	Aquatic plants - Ceratophyllum demersum	3 days
	Chronic NOEC 0.02 mg/l Fresh water	Crustaceans - Cambarus bartonii - Mature	21 days
	Chronic NOEC 2 µg/l Fresh water	Daphnia - Daphnia magna	21 days
	Chronic NOEC 0.8 µg/l Fresh water	Fish - Oreochromis niloticus - Juvenile (Fledgling, Hatchling, Weanling)	6 weeks
white phosphorus	Acute EC50 18.3 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
	Acute NOEC 5 mg/l Fresh water	Algae - Desmodesmus subspicatus	72 hours
Nickel	Acute EC50 2 ppm Marine water	Algae - Macrocystis pyrifera - Young	4 days
	Acute EC50 450 μg/l Fresh water	Aquatic plants - Lemna minor	4 days
	Acute EC50 1000 µg/l Marine water	Daphnia - Daphnia magna	48 hours
	Acute IC50 0.31 mg/l Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 47.5 ng/L Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 100 mg/l Marine water	Algae - Glenodinium halli	72 hours
	Chronic NOEC 3.5 µg/l Fresh water	Fish - Cyprinus carpio	4 weeks
zinc oxide	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
ZITIC OXIDE	Acute IC50 46 µg/l Fresh water	Algae - Skeletofierria costaturri Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 98 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.04 mg/l Fresh water	Daphnia - Daphnia magna	21 days

Conclusion/Summary

: Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

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Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
zinc oxide	-	28960	high

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues.

Section 14. Transport information

	DOT Classification	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.

Additional information

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

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Section 15. Regulatory information

U.S. Federal regulations

: TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are active or exempted.

Clean Water Act (CWA) 307: copper; Nickel; zinc oxide

Clean Water Act (CWA) 311: white phosphorus

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

: Listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

Class II Substances

: Not listed

DEA List I Chemicals

(Precursor Chemicals)

: Listed

DEA List II Chemicals (Essential Chemicals)

: Not listed

SARA 302/304

Composition/information on ingredients

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
white phosphorus	5 - 9	Yes.	100	-	1	-

SARA 304 RQ : 14.3 lbs / 6.5 kg

SARA 311/312

Classification : SKIN SENSITIZATION - Category 1

CARCINOGENICITY - Category 2

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

Composition/information on ingredients

Name	%	Classification	
copper	70 - 80	COMBUSTIBLE DUSTS	
white phosphorus	5 - 9	FLAMMABLE SOLIDS - Category 2	
		PYROPHORIC SOLIDS - Category 1	
		ACUTE TOXICITY (oral) - Category 2	
		ACUTE TOXICITY (inhalation) - Category 2	
		SKIN CORROSION - Category 1A	
		SERIOUS EYE DAMAGE - Category 1	
Nickel	4 - 8	SKIN SENSITIZATION - Category 1	
		CARCINOGENICITY - Category 2	
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED	
		EXPOSURE) - Category 1	
zinc oxide	0 - 0.5	EYE IRRITATION - Category 2B	

SARA 313

Section 15. Regulatory information

	Product name	CAS number	%
Form R - Reporting requirements	white phosphorus	7723-14-0	70 - 80 5 - 9 4 - 8
Supplier notification	white phosphorus		70 - 80 5 - 9 4 - 8

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts : The following components are listed: COPPER; TIN; PHOSPHORUS (YELLOW);

PHOSPHORUS (WHITE); NICKEL; NICKEL CATALYST

New York : The following components are listed: Copper; Phosphorus; Nickel

The following components are listed: COPPER; TIN; PHOSPHORUS; PHOSPHORUS **New Jersey**

YELLOW; NICKEL

Pennsylvania The following components are listed: COPPER FUME; TIN; PHOSPHORUS; NICKEL

CATALYST

California Prop. 65

MARNING: This product can expose you to Nickel, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Nickel	-	-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

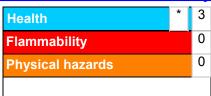
Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



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Section 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

Classification	Justification
CARCINOGENICITY - Category 2	Calculation method Calculation method Calculation method

History

Date of issue/Date of

revision

Version

Date of previous issue

. 4

Prepared by

: Sphera Solutions

: No previous validation

Key to abbreviations

: ATE = Acute Toxicity Estimate

AMP = Acceptable maximum peak above the acceptable ceiling concentration for an

8-hr shift

: 07/17/2020

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

References

: HCS (U.S.A.)- Hazard Communication Standard

International transport regulations

Indicates information that has changed from previously issued version.

Notice to reader

The Metglas Braze Foil is intended to be used as a braze filler metal in a vacuum or inert atmosphere braze furnace. Since the actual use by others is beyond our control, it is the user's responsibility to determine the suitability of the product for its use and to adopt such safety precautions as may be necessary. Since the conditions of use are not under our control, Metglas disclaims all liability with respect to the use of any material supplied by Metglas.

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