Co-500 DLC®-A

1: Identification

Recommended use:

Restrictions on use:

Emergency phone number:

Product identifier: Other means of identification: Supplier:

Co-500 DLC®-A Complex mixture NATROCHEM, Inc. P.O. Box 1205 Savannah, GA 31402-1205 912-236-4464 Cross-linking agent Not applicable. CHEMTREC (USA) 800-424-9300 CHEMTREC (Int'I) 202-483-7616

2: Hazard(s) identification

GHS classification:	Skin sensitization – Category 1
	Chronic aquatic toxicity – Category 2
GHS label elements	
Signal word:	WARNING
Symbol(s):	
Hazard statements:	H317: May cause an allergic skin reaction
	H411: Toxic to aquatic life with long lasting effects
Hazards not otherwise classified:	May form combustible dust concentrations in the air.
Precautionary statements:	
Prevention:	Avoid breathing dust/vapours.
	Do not get in eyes, on skin, or on clothing.
	Do not eat, drink or smoke when using this product.
	Avoid release to the environment.
Response:	IF ON SKIN (or hair): Wash with plenty of soap and water.
·	IF INHALED: Remove person to fresh air and keep comfortable for
	breathing.
	IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses if present and easy to do – continue rinsing.
	IF exposed or concerned: Call a POISON CENTER/ doctor if you feel unwell.
	In case of fire: Use dry chemical, CO ₂ , water spray (fog), or foam to extinguish.

ore in a dry place. Store in a closed container.		
Dispose of contents/container in accordance with applicable		
gulations.		
ot applicable.		

3: Composition

Substance/mixture:

Mixture

Ingredient	Synonyms	CAS number	Concentration (%)
2-propenoic acid, 2-methyl, -2- ethyl-2-[[(2-methyl-1-oxo-2- propenyl)oxy]methyl]-1,3- propanediyl ester		3290-92-4	< 65
2-propenoic acid, 2-ethyl-2-[[(1- oxo-2-propenyl)oxy]methyl]- 1,3-propanediyl ester		15625-89-5	< 8
Benzenamine, N-nitroso-N- phenyl-		86-30-6	< 3
Silica, amorphous, precipitated, and gel		112926-00-8	26-30

Contains no detectable crystalline silica (detection limit <0.01% by weight)

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 or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

4: First-aid measures

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM, OR PHYSICIAN immediately; have SDS information available. Never give anything by mouth to an unconscious or convulsing person.

Description of necessary first aid measures

Eye contact:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
Inhalation:	Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular, or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion:If swallowed, seek medical advice immediately and show this
container or label. Keep person warm and at rest. Do NOT induce
vomiting.

Most important symptoms/effects, acute and delayed.

Potential acute health effects

Eye contact:	No significant irritation expected other than possible mechanical
	irritation.
Inhalation:	Exposure to airborne concentrations above statutory or
	recommended exposure limits may cause irritation of the nose,
	throat, and lungs.
Skin contact:	Prolonged or repeated contact may dry skin and cause irritation.
Ingestion:	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact:	Adverse symptoms may include the following:
	Irritation
	Redness
Inhalation:	Adverse symptoms may include the following:
	Coughing
	Respiratory tract irritation
Skin contact:	Adverse symptoms may include the following:
	Dryness
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.

See toxicological information (Section 11)

5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media:	Use dry chemical, CO ₂ , water spray (fog), or foam.
Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire.
Specific hazards arising from the chemical:	Product forms a slippery surface when combined with water.

Hazardous thermal	In the event of a fire, hazardous decomposition products may
decomposition products:	include:
	Carbon monoxide
	Carbon dioxide
	Methacrylates
	Acrylates
	Amines
	Other unidentified organic compounds
Special protective actions for	No action shall be taken involving any personal risk or without
firefighters:	proper training.
Special protective	Firefighters and others who may be exposed to products of
equipment for firefighters:	combustion should wear full firefighting turn out gear (full bunker
	gear) and self-contained breathing apparatus (SCBA) operated in pressure-demand mode (MSHA/NIOSH approved or equivalent).

6: Accidental release measures

Personal precautions, protective equipment, and emergency procedures

For non-emergency	Keep unnecessary and unprotected personnel from entering. Do
personnel:	not touch or walk through spilled material. Product forms slippery surface when combined with water. No action shall be taken involving any personal risk or without suitable training.
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 immediately above in "For non- emergency personnel".
Environmental precautions:	Avoid release to sewers, waterways, soil, or air. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

Methods and materials for containment and cleaning up

Small spill:	Avoid generating dust. Vacuum or sweep up material and place in a
	designated, labeled waste container.
Large spill:	Avoid generating dust. Vacuum or sweep up material and place in a
	designated, labeled waste container.

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

7: Handling and storage

Precautions for safe handling

Protective measures:	Put on appropriate personal protective equipment (see Section 8).
Advice on general	Eating, drinking, and smoking should be prohibited in areas where
occupational hygiene:	this material is handled, stored, and processed. Workers should

wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. When transferring material into flammable solvents, use proper grounding to avoid electrical sparks. Avoid alteration of product properties before use. Calcining (which may result in crystalline silica formation) or mixing with additives may alter toxicological properties. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities:

ventilated area away from incompatible materials (see **Section 10**) and food and drink. Keep container tightly closed and sealed until

ready for use. Do not store in unlabeled containers.

8: Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.	
Recommended monitoring procedures:	If this product contains ingredients with exposure limits, personal, workplace atmosphere, or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure that they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters, or engineering modifications to process equipment will be necessary to reduce emissions to acceptable levels.

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
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

Skin protection	possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: splash goggles.		
Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. When handling hot material, wear heat-resistant gloves that are able to withstand the temperature of molten product.		
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:	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air- purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.		

9: Physical and chemical properties

-	
<u>Appearance</u>	
Physical state:	Powder, solid, or granular solid.
Color:	Tan to brown.
Odor:	Acrylic-like.
Odor threshold:	Not available.
pH:	Not available.
Melting/freezing point:	Not available.
Boiling point and range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability:	Not available.
Flammability or explosive	Not available.
limits:	
Vapor pressure:	Not available.
Vapor density:	Not available.
Relative density:	Not available.
Solubility:	Negligible in water.
Partition coefficient: n-	Not available.
octanol/water:	
Auto-ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not applicable.

10: Stability and reactivity

Reactivity:	No specific test data related to reactivity available for this product			
	or its ingredients.			
Chemical stability:	This product is stable under normal and anticipated storage, handling, and processing conditions; however, this material can undergo hazardous polymerization.			
Possibility of hazardous	Hazardous polymerization may occur. Polymerization is exothermic			
reactions:	and can degenerate into an uncontrolled reaction.			
Conditions to avoid:	High temperature (>800°C) treatment (calcining), which may result			
	in crystalline silica formation.			
	Avoid alteration of product properties before use. Calcining or			
	mixing with additives may alter toxicological properties.			
	Avoid generating dust.			
	This material polymerizes exothermically in the presence of heat,			
	contamination, oxygen-free atmosphere, radicals, peroxides, and			
	inhibitor depletion, liberating heat.			
	Avoid direct sunlight. DO NOT expose to UV light.			
	Refer to protective measures listed in Sections 7 and 8.			
Incompatible materials:	Reactive or incompatible with the following materials:			
	Acids			
	Oxidizing materials			
	Strong alkalis			
	Strong reducing agents			
	Free radical generators			
	Inert gas			
	Oxygen scavenger			
	Peroxides			
Hazardous decomposition	In the event of a fire, hazardous decomposition products may			
products:	include:			
	Carbon monoxide			
	Carbon dioxide			
	Methacrylates			
	Acrylates			
	Amines			
	Other unidentified organic compounds			

11: Toxicological information

Information on toxicological effects

Acute toxicity

Conclusion/summary:	No known significant effects or critical hazards.				
Ingredient	Result	Species	Dose	Exposure	
Propylidynetrimethyl trimethacrylate	LC ₀ inhalation	Rat	-	8 hr	
Trimethylpropane triacrylate	LC ₀ inhalation	Rat	> 0.55 mg/L	6 hr	

Irritation/corrosion	
Conclusion/summary	
Skin:	Propylidynetrimethyl trimethacrylate:
	Causes skin irritation (Rabbit) 5 days repeated skin exposure
	Trimethylpropane triacrylate:
	Causes mild skin irritation (Rabbit) 4 hr skin irritation index 2.2-
	3.8/8
	Causes skin irritation (Rabbit) 6 hr repeated skin exposure
Eyes:	Propylidynetrimethyl trimethacrylate:
	Causes mild eye irritation (Rabbit) 0-8.1/110
	Trimethylpropane triacrylate:
	Causes serious eyeirritation (Rabbit) irritation index 44/110
	Nitrosodiphenylamine:
	Causes mild eye irritiation (Rabbit)
Respiratory:	No known significant effects or critical hazards.
<u>Sensitization</u>	
Conclusion/summary:	No. of the set for the last set of the set
Skin:	Propylidynetrimethyl trimethacrylate:
	Not a sensitizer: Guinea pig maximization test. Both positive and
	negative responses have been reported.
	Possible cross-sensitization with other acrylates and methacrylates Trimethylpropane triacrylate:
	May cause an allergic skin reaction: Repeated skin exposure
	(Guinea pig) skin allergy was observed (strong sensitizer)
	Not a sensitizer: mouse ear swelling assay. No skin allergy was
	observed.
Respiratory:	No known significant effects or critical hazards.
Mutagenicity:	No known significant criccis of critical hazards.
Conclusion/summary:	Propylidynetrimethyl trimethacrylate:
	In vitro – no genetic changes were observed in laboratory tests
	using: bacteria, yeast; both positive and negative changes were
	observed in laboratory tests using: animal cells, human cells
	In vivo – no genetic changes were observed in laboratory tests
	using: rats, mice
	Trimethylpropane triacrylate:
	In vitro – Both positive and equivocal responses have been
	reported in tests using: bacteria; genetic changes were observed
	in laboratory tests using: animal cells
	In vivo – No genetic changes were observed in a laboratory test
	using: mice
	Nitrosodiphenylamine:
	In vitro – Both positive and negative responses for genetic changes
	were observed in laboratory tests using: bacteria, animal cells
	In vivo – No genetic changes were observed in a laboratory test
	using: fruit flies
Carcinogenicity	
Conclusion/summary:	Propylidynetrimethyl trimethacrylate:

Chronic dermal administration to mouse – affect organs: skin, site of contact – structural organ changes, fibrosis

Nitrosodiphenylamine:

Chronic dietary administration to rat, mouse – affected organs: urinary bladder – increase in tumor incidence was reported

С	lassification	uillary t	nauuer	- increase in tumor incluence was reported	
E	Ingredient	OSHA	IARC	NTP	
	Silica, amorphous,	-	3	-	
	precipitated, and gel				
	Nitrosodiphenylamine	-	3	-	
L	Carcinogen classification of	ode:	1		
		2B, 3, 4			
	NTP: [Know OSHA: +	n/Reasona	bly antic	ipated] to be a human carcinogen	
	Not listed/regula	ated: -			
<u>Rep</u>	roductive toxicity				
C	onclusion/summary:	Propylid	ynetrin	nethyl trimethacrylate:	
		Reprodu	ctive/d	evelopmental effects screening assay (oral, rat): no	
		toxicity t	o repro	oduction	
		Trimethy	ylpropa	ne triacrylate:	
		•		g pregnancy (oral, rat): no birth defects were	
		observed	b		
	atogenicity				
	onclusion/summary:		•	ficant effects or critical hazards.	
-	cific target organ toxicity (si	ngle expo	<u>osure)</u>		
	ot available.				
-	<u>cific target organ toxicity (re</u>	peated e	xposur	<u>e)</u>	
	ot available.				
Targ	<u>get organs</u>	Contains material which may cause damage to the following			
	organs: upper respiratory tract, eyes.				
	iration hazard				
	available.	D	6	and the stand of the stand of the ball of the	
	ation on the likely routes	Routes c	ofentry	anticipated: oral, dermal, inhalation.	
of exposure:					
Poter	ntial acute health effe	cts			
	contact:		ficant ir	ritation expected other than possible mechanical	
-,-		irritatior			
Inha	alation:			porne concentrations above statutory or	
		•		exposure limits may cause irritation of the nose,	
		throat, and lungs.			
Skin	contact:	Prolonged or repeated contact may dry skin and cause irritation.			
Inge	estion:	No known significant effects or critical hazards.			
-			C		
	-	-		nical, and toxicological characteristics	
Eye	Eye contact: Adverse symptoms may include the following:				
		Irritation			
		Redness			

Inhalation:

Adverse symptoms may include the following:

	Coughing
	Respiratory tract irritation
Skin contact:	Adverse symptoms may include the following:
	Dryness
Ingestion:	No specific data.

Delayed and immediate effects and also chronic effects from short- and longterm exposure

Conclusion/summary:	An epidemiological study was conducted which included 165 precipitated silica workers who had been exposed an average time of 8.6 years. Of these 165 workers, 44 had been exposed for an average of 18 years. No adverse effects were noted in complete medical examinations (including chest roentgenograms) of these workers. Pulmonary function decrements were correlated only with smoking and age but not with the degree or duration of dust exposures. Laboratory studies have also been conducted in small animals via inhalation of levels of precipitated silica dust of up to 126 mg/m ³ per periods from six months to two years. Although precipitated silica was temporarily deposited in animals' lungs, most of the deposited material was cleared soon after the dust exposure ended. The results of all studies performed by, or known to, PPG indicated a very low order of pulmonary activity for synthetic precipitated silicas. PPG recommends that persons with breathing problems or lung disease should not work in dusty areas unless a physician approves and certifies their fitness to wear respiratory protection.
Short-term exposure Potential immediate effects Potential delayed effects	No significant irritation expected other than possible mechanical irritation. Prolonged or repeated contact may dry skin and cause irritation.
Long-term exposure	Repeated or prolonged inhalation of dust may lead to chronic
Potential immediate	respiratory irritation.
effects	Repeated or prolonged inhalation of dust may lead to chronic
Potential delayed effects	respiratory irritation.
Potential chronic health eff	ects
General:	No known significant effects or critical hazards.
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.

reratogenicity:	NO KHOWH Significant effects of childan hazarus.
Developmental effects:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

ATE Oral: 6913 mg/kg ATE Dermal: 6234 mg/kg

12: Ecological information

Toxicity

Ingredient	Result	Species	Exposure
Silica, amorphous,	NOEC > 1000 ppm	Daphnia – <i>daphnia</i>	24 hours
precipitated, and gel		magna	
	Acute NOEC > 10000 ppm	Fish	96 hours static
	fresh water		
	Acute NOEC > 10000 ppm	Fish – brachydanio rerio	4 days static
2-propenoic acid, 2-	LC50 2 mg/L	Fish – oncorhyncus	96 hours
methyl, -2-ethyl-2-		mykiss	
[[(2-methyl-1-oxo-2-	EC50 9.22 mg/L	Daphnia – <i>daphnia</i>	48 hours
propenyl)oxy]methyl]-		magna	
1,3-propanediyl ester	EC50 1.11-3.88 mg/L	Algae –	72 hours
		pseuodokirchneriella	
		subcapitata	
	EC50 > 1.000 mg/L	Activated sludge	3 hours
2-propenoic acid, 2-	LL50 1.47 mg/L	Fish – <i>leuciscus idus</i>	96 hours
ethyl-2-[[(1-oxo-2-	EC50 19.9 mg/L	Daphnia – <i>daphnia</i>	48 hours
propenyl)oxy]methyl]-		magna	
1,3-propanediyl ester	EC20 4.86 mg/L	Algae – desmodesmus	96 hours
		subspicatus	
	EC20 625 mg/L	Activated sludge	30 mins
Benzenamine, N-	EC50 7.8 mg/L	Daphnia – <i>daphnia</i>	48 hours
nitroso-N-phenyl-		magna	

Persistence and degradability

Ingredient	Aquatic half-life	Photolysis	Biodegradability
2-propenoic acid, 2-	-	-	Not readily (29-53%)
methyl, -2-ethyl-2-			
[[(2-methyl-1-oxo-2-			
propenyl)oxy]methyl]-			
1,3-propanediyl ester			
2-propenoic acid, 2-	-	-	Readily (86%)
ethyl-2-[[(1-oxo-2-			
propenyl)oxy]methyl]-			
1,3-propanediyl ester			
Benzenamine, N-	-	-	Readily (98%)
nitroso-N-phenyl-			
Silica, amorphous,	-	-	Not readily
precipitated, and gel			

Bioaccumulative potential

Ingredient	LogPow	BCF	Potential
2-propenoic acid, 2- methyl, -2-ethyl-2- [[(2-methyl-1-oxo-2- propenyl)oxy]methyl]- 1,3-propanediyl ester	2.7-4.2	-	-
2-propenoic acid, 2- ethyl-2-[[(1-oxo-2- propenyl)oxy]methyl]- 1,3-propanediyl ester	0.67	-	-
Benzenamine, N- nitroso-N-phenyl-	2.57-3.13	-	-
Silica, amorphous, precipitated, and gel	-	0	low

Mobility in soil

Soil/water partition	Not available.
coefficient (K _{oc}):	
Other adverse effects:	No known significant effects or critical hazards.

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.
	

Disposal should be in accordance with applicable regional, national, and local laws and regulations.

Refer to Sections 6, 7, and 8 for additional information on accidental release measures, handling and storage, and exposure controls.

14: Transport information

	DOT	IMDG	ΙΑΤΑ
UN number	3077	3077	Not regulated.
UN proper shipping name	Environmentally Environmentally		-
	hazardous substance,	hazardous substance,	
	solid, n.o.s.	solid, n.o.s.	
	(Propylidynetrimethyl	(Propylidynetrimethyl	
	trimethacrylate)	trimethacrylate)	
Transport hazard class(es)	0	0	-
Packing group	III	III	-
Environmental hazards	Yes	Yes	No.
Marine pollutant substances	Yes	Yes	Not applicable.
Additional information	Not regulated for	-	-
	domestic		
	road/rail/air		
	transport per 49 CFR		
	171.4 (c) (1)		
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 to Not available. Annex II of MARPOL 73/78 and the IBC code:

15: Regulatory information

Inventory status

United States inventory (TSCA 8b):	All components are listed or exempted.
Australia inventory (AICS):	All components are listed or exempted.
Canada inventory (DSL):	All components are listed or exempted.
China inventory (IECSC):	All components are listed or exempted.
Europe inventory (REACH):	All components are listed or exempted.
Japan inventory (ENCS):	Please contact your supplier for information on the inventory status of this material.
Korea inventory (KECI): Philippines inventory (PICCS):	All components are listed or exempted. Does not conform

United States

US Federal regulations:

SARA Title III

Section 302 – Extremely Hazardous Chemicals:

The components in this product are either not SARA Section 302 regulated or are regulated but present in negligible concentrations.

Section 311/312 – Hazard Categories:

Reactivity hazard Acute health hazard

Section 313 – Toxic Chemicals:

Benzenamine, N-nitroso-N-phenyl- (1.0% de minimis; 25000 lb RQ manufacturing/processing; 10000 RQ other)

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – Reportable Quantity (RQ)

Benzenamine, N-nitroso-N-phenyl- (100 lb RQ)

Ingredient	NJ RTK	MA RTK	PN RTK	CA Prop. 65
Silica, amorphous, precipitate, and gel	Listed	-	-	-
2-propenoic acid, 2-methyl, -2-ethyl-2-[[(2-methyl-1- oxo-2- propenyl)oxy]methyl]-1,3- propanediyl ester	Not listed	-	Listed	Not listed
2-propenoic acid, 2-ethyl-2- [[(1-oxo-2- propenyl)oxy]methyl]-1,3- propanediyl ester	Not listed	-	Listed	Not listed
Benzenamine, N-nitroso-N- phenyl-	Special health hazard	-	Environmentally hazardous	Listed

US State regulations:

16: Other information

Hazardous Material Identification System (USA)

HEALTH	1
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	

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 are not required on SDSs under 29 CFR 1901.1200, the preparer may choose to provide them. HMIS[®] ratings are to be used with a fully implemented HMIS[®] program. HMIS[®] is a registered mark of the Nation Paint & Coatings Association (NPCA). HMIS[®] materials may be purchased exclusively from J.J.Keller 800-327-6868.

* - chronic effects

The customer is responsible for determining the PPE code for this material.

Key to abbreviations:

ATE	Acute toxicity estimate
BCF	Bioconcentration factor

GHS	Globally Harmonized System of classification and labeling 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 73/78	International convention for the Prevention of Pollution from Ships,
	1973, as modified by the Protocol of 1978. (MARPOL = marine pollution)
UN	United Nations

Disclaimer:

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