* 1 Identification

Product identifier

Trade name: P-413C Baked Phenolic Coating

Application of the substance / the mixture Heat-cured phenolic coating for products fabricated of light gauge metal.
Uses advised against None specified.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
HERESITE PROTECTIVE COATINGS, LLC
Liquid Coatings Division
822 SOUTH 14TH ST.
MANITOWOC, WI 54220, USA
TELEPHONE NUMBER: +1 (920) 684-6646
FAX NUMBER: +1 (920) 684-0110

Emergency telephone number CHEMTREC 800-424-9300

* 2 Hazard(s) identification

Classification of the substance or mixture


GHS02

Flammable Liquids 2	H225 Highly flammable liquid and vapor.


GHS08

Germ Cell Mutagenicity 2	H341 Suspected of causing genetic defects.
Carcinogenicity 1A	H350 May cause cancer.
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure 1	H370 Causes damage to organs.
Specific Target Organ Toxicity - Repeated Exposure 2	H373 May cause damage to organs through prolonged or repeated exposure.


GHS05

Eye Damage 1	H318 Causes serious eye damage.


GHS07

Acute Toxicity - Oral 4	H302 Harmful if swallowed.

(Contd. on page 2)

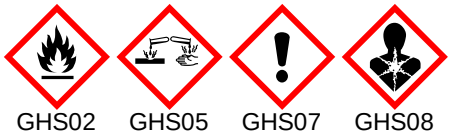
Trade name: P-413C Baked Phenolic Coating

Acute Toxicity - Inhalation 4	H332 Harmful if inhaled.
Skin Irritation 2	H315 Causes skin irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.

Label elements

GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS02 GHS05 GHS07 GHS08

Signal word Danger

Hazard-determining components of labeling:
formaldehyde, oligomeric reaction products with phenol
phenol
Tricresyl phosphate
formaldehyde

Hazard statements

H225	Highly flammable liquid and vapor.
H302+H332	Harmful if swallowed or if inhaled.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H370	Causes damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	If swallowed: Call a poison center/doctor if you feel unwell.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

(Contd. on page 3)

P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P362+P364	Take off contaminated clothing and wash it before reuse.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P370+P378	In case of fire: Use CO2, powder or water spray to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

PBT: Not applicable.

vPvB: Not applicable.

* 3 Composition/information on ingredients

Chemical characterization:

Hazardous components:		
CAS: 64-17-5	ethyl alcohol Flammable Liquids 2, H225 Eye Irritation 2A, H319	10-30%
CAS: 9003-35-4	formaldehyde, oligomeric reaction products with phenol Eye Irritation 2A, H319; Sensitization - Skin 1, H317	10-25%
CAS: 1330-78-5	Tricresyl phosphate Toxic to Reproduction 2, H361	7-13%
CAS: 108-95-2	phenol Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331 Germ Cell Mutagenicity 2, H341; Specific Target Organ Toxicity - Repeated Exposure 2, H373 Skin Corrosion 1B, H314	1-5%
CAS: 71-36-3	butan-1-ol Flammable Liquids 3, H226 Eye Damage 1, H318 Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H335-H336	1-5%
CAS: 67-56-1	methanol Flammable Liquids 2, H225 Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 3, H331 Specific Target Organ Toxicity - Single Exposure 1, H370	0.7-1.5%

(Contd. on page 4)

US

CAS: 14808-60-7	quartz (SiO_2)	0.1-<1%
	Carcinogenicity 1A, H350; Specific Target Organ Toxicity - Repeated Exposure 1, H372-H373 Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 50-00-0	formaldehyde	0.2-<1%
	Acute Toxicity - Oral 3, H301; Acute Toxicity - Dermal 3, H311; Acute Toxicity - Inhalation 2, H330 Germ Cell Mutagenicity 2, H341; Carcinogenicity 1B, H350 Skin Corrosion 1B, H314 Sensitization - Skin 1, H317	
CAS: 123-42-2	4-hydroxy-4-methylpentan-2-one	0.5-1.5%
	Flammable Liquids 3, H226 Toxic to Reproduction 2, H361 Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335	
CAS: 108-10-1	4-methylpentan-2-one	0.1-1%
	Flammable Liquids 2, H225 Carcinogenicity 2, H351 Acute Toxicity - Inhalation 4, H332; Specific Target Organ Toxicity - Single Exposure 3, H335-H336	

Additional information:
In accordance with paragraph (i) of §1910.1200, the exact percentage (concentration) of composition of the mixture ingredients has been withheld as a trade secret.

*
4 First-aid measures

Description of first aid measures

General information: IF exposed or concerned: Get medical advice/attention.

After inhalation:
If not breathing, give artificial respiration.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Avoid breathing dust/fume/gas/mist/vapors/spray
Call a poison center/doctor if you feel unwell.

After skin contact:
Flush contaminated skin with large amounts of water while removing contaminated clothing.
Continue to rinse for at least 10 minutes.
If skin irritation occurs: Get medical advice/attention.
Wash clothes before reusing.
Clean shoes thoroughly before reuse.

After eye contact:
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Obtain medical attention immediately, as a precaution.

After swallowing:
If swallowed: Call a poison center/doctor if you feel unwell.
If person is conscious, give them several glasses of water to drink.
Do not induce vomiting unless directed to do so by medical personnel.
Obtain immediate medical attention.

Most important symptoms and effects, both acute and delayed
Any additional important symptoms and effects are described in Section 11: Toxicological Information

(Contd. on page 5)

Indication of any immediate medical attention and special treatment needed Consult a physician.

* 5 Fire-fighting measures

Extinguishing media

Suitable extinguishing agents: Carbon dioxide (CO2), dry chemical, foam.
For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire.

Advice for firefighters

Protective equipment:
Firefighters use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Additional information Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

* 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.
Wear protective equipment.
Keep unprotected persons away.
Keep away from ignition sources

Environmental precautions:

Do not allow product to reach sewage system or any water course.
Inform authorities in case of release.
Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.
Keep contaminated washing water and dispose of appropriately.
Prevent seepage into sewage system, workpits and cellars.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation and proper training.
Clean the accident area carefully.
Send for recovery or disposal in suitable containers.

Reference to other sections

See section 2 for Hazard Identification.
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

(Contd. on page 6)

US

* 7 Handling and storage

Precautions for safe handling:
Do not handle until all safety precautions have been read and understood.
Ensure adequate ventilation.
Prevent the formation of aerosols.
Use solvent-proof equipment.
Avoid jolting, friction and impact.
Do not breathe mist/vapours/spray.
Take off contaminated clothing and wash it before reuse.
Do not eat, drink or smoke when using this product.
Information about protection against explosions and fires:
Highly flammable liquid and vapor.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Protect against electrostatic charges.
Use explosion-proof apparatus / fittings and spark-proof tools.
Ground/bond container and receiving equipment.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:
Store in a cool, well ventilated area.
Keep container tightly closed.
Protect from heat and direct sunlight.
Information about storage in one common storage facility:
Store away from incompatible materials. See Section 10.
Store locked up.
Further information about storage conditions:
Dispose of contents/container in accordance with local/regional/national/international regulations.

Specific end use(s) No further relevant information available.

* 8 Exposure controls/personal protection

Additional information about design of technical systems:
Technical measures and the application of adequate working methods take priority over the use of personal protection equipment.
Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Control parameters

Components with limit values that require monitoring at the workplace:
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

CAS: 64-17-5 ethyl alcohol	
PEL	Long-term value: 1900 mg/m³, 1000 ppm

(Contd. on page 7)

REL	Long-term value: 1900 mg/m³, 1000 ppm
TLV	Short-term value: 1000 ppm A3
CAS: 108-95-2 phenol	
PEL	Long-term value: 19 mg/m³, 5 ppm Skin
REL	Long-term value: 19 mg/m³, 5 ppm Ceiling limit value: 60* mg/m³, 15.6* ppm *15-min; Skin
TLV	Long-term value: 5 ppm Skin; BEI, A4
CAS: 71-36-3 butan-1-ol	
PEL	Long-term value: 300 mg/m³, 100 ppm
REL	Ceiling limit value: 150 mg/m³, 50 ppm
TLV	Long-term value: 20 ppm
CAS: 67-56-1 methanol	
PEL	Long-term value: 260 mg/m³, 200 ppm
REL	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin
TLV	Short-term value: 250 ppm Long-term value: 200 ppm Skin; BEI
CAS: 14808-60-7 quartz (SiO_2)	
PEL	Long-term value: 0.05* mg/m³ *resp. dust; 30mg/m3/%SiO2+2
REL	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m³ *respirable particulate matter, A2
CAS: 50-00-0 formaldehyde	
PEL	Short-term value: 2 ppm Long-term value: 0.75 ppm see 29 CFR 1910.1048(c)
REL	Long-term value: 0.016 ppm Ceiling limit value: 0.1* ppm *15-min; See Pocket Guide App. A
TLV	Short-term value: 0.3 ppm Long-term value: 0.1 ppm DSEN; RSEN, A1

(Contd. on page 8)

CAS: 123-42-2 4-hydroxy-4-methylpentan-2-one	
PEL	Long-term value: 240 mg/m³, 50 ppm
REL	Long-term value: 240 mg/m³, 50 ppm
TLV	Long-term value: 50 ppm
CAS: 108-10-1 4-methylpentan-2-one	
PEL	Long-term value: 410 mg/m³, 100 ppm
REL	Short-term value: 300 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm
TLV	Short-term value: 75 ppm Long-term value: 20 ppm BEI, A3

Regulatory information
PEL: Guide to Occupational Exposure Values (OSHA PELs)
REL: Guide to Occupational Exposure Values (NIOSH RELs)
TLV: Guide to Occupational Exposure Values (TLV)

Ingredients with biological limit values:	
CAS: 108-95-2 phenol	
BEI	250 mg/g creatinine Medium: urine Time: end of shift Parameter: Phenol with hydrolysis (background, nonspecific)
CAS: 67-56-1 methanol	
BEI	15 mg/L Medium: urine Time: end of shift Parameter: Methanol (background, nonspecific)
CAS: 108-10-1 4-methylpentan-2-one	
BEI	1 mg/L Medium: urine Time: end of shift Parameter: MIBK

Regulatory information
Monitoring of substance concentrations in air at the workplace may be necessary to ensure compliance with official exposure limit values and adequacy of exposure controls. For some substances biological monitoring may also be appropriate. For further information contact the supplier or the competent authorities.
BEI: Guide to Occupational Exposure Values (BEI)

Exposure controls

Personal protective equipment:
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.

(Contd. on page 9)

Take off contaminated clothing and wash it before reuse.
Contaminated work clothing must not be allowed out of the workplace.
Wash hands thoroughly after handling.
Avoid any contact with skin and eyes.
Do not breathe dust/fume/gas/mist/vapours/spray.
Do not eat, drink or smoke when using this product.

Breathing equipment:
Engineering controls should be used as primary means to control exposures. Local exhaust ventilation is required unless used in a closed system. For laboratory use, handle in a lab fume hood.
If the applicable Occupational Exposure Level (OEL) is exceeded, wear a NIOSH certified respiratory protection equipment meeting US requirements (1910.134 Occupational Safety and Health Administration, Personal Protective Equipment, Respiratory Protection) with a protection factor sufficient to control exposures to below the OEL.

Protection of hands:
Material of gloves chemical resistant gloves
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:
Safety glasses with side shields
If splash potential exists, wear full face shield or chemical goggles.

Body protection:
Protective work clothing
Apron

* 9 Physical and chemical properties

Information on basic physical and chemical properties

General Information
Appearance:

Form:	Liquid
Color:	Brown
Odor:	Solvent-like odor
Odor threshold:	Not determined.
pH-value:	No data available.

Change in condition

Melting point/Melting range:	No data available.
Boiling point/Boiling range:	80-100 °C (176-212 °F)
Flash point:	12 °C (53.6 °F)
Flammability (solid, gaseous):	Highly flammable.
Ignition temperature:	425 °C (797 °F)
Decomposition temperature:	Not determined.

(Contd. on page 10)

US

Auto igniting:	Not determined.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	3.3 Vol %
Oxidizing properties:	No data available.
Vapor pressure at 20 °C (68 °F):	34.9 hPa (26.2 mm Hg)
Density:	Not determined.
Relative density:	Not determined.
Vapour density:	Not applicable.
Evaporation rate:	< Ether
Solubility in / Miscibility with	
Water:	No data available.
Partition coefficient (n-octanol/water):	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
Other information	No further relevant information available.

* 10 Stability and reactivity

Reactivity The product is not reactive under standard conditions (temperature, pressure) of storage and handling.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions No dangerous reactions known.

Conditions to avoid

Heat, flame and ignition sources.
High Temperatures.

Incompatible materials:

Strong acids
Strong bases
Strong oxidizing agents
Metals
Alkalis / alkaline (earth) metals
Ammonia
Peroxides
Oxidising Materials
Bases
Halogens
Chlorates

Hazardous decomposition products: In case of fire: Carbon Dioxide, Carbon Monoxide, Hydrocarbons

(Contd. on page 11)

US

* 11 Toxicological information

Information on toxicological effects

Acute toxicity:

LD/LC50 values:

Harmful if swallowed or if inhaled.

CAS: 64-17-5 ethyl alcohol		
Oral	LD50	10,470 mg/kg (rat)
Dermal	LD50	15,800 mg/kg /bw (rabbit)
Inhalative	LC50	124.7 mg/m³ (rat)
CAS: 9003-35-4 formaldehyde, oligomeric reaction products with phenol		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50	>5 mg/L (rat)
CAS: 108-95-2 phenol		
Oral	LD50	340 mg/kg (rat)
Dermal	LD50	660 mg/kg (rabbit)
Inhalative	LC50	>900 mg/m³ /8h (rat)
CAS: 71-36-3 butan-1-ol		
Oral	LD50	2,292 mg/kg (rat)
Dermal	LD50	3,430 mg/kg (rabbit)
CAS: 67-56-1 methanol		
Oral	LD50	1,187-2,769 mg/kg (rat)
Dermal	LD50	17.1 mg/kg (rabbit)
CAS: 50-00-0 formaldehyde		
Oral	LD50	460 mg/kg (rat)
Inhalative	LC50	490 ppm /4h (rat)
CAS: 123-42-2 4-hydroxy-4-methylpentan-2-one		
Oral	LD50	3,002 mg/kg (rat) (OECD 401)
Dermal	LD50	>1,875 mg/kg (rat) (OECD 402)
Inhalative	LC0	≥7.6 mg/L (rat)
CAS: 108-10-1 4-methylpentan-2-one		
Oral	LD50	2,080 mg/kg (rat)
		0.83 mg/kg (sediment marine water)
Dermal	LD50	>2,000 mg/kg (rat)

Skin Corrosion/Irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye damage.

(Contd. on page 12)

Sensitization:
May cause an allergic skin reaction.
Sensitization possible through skin contact.

Additional toxicological information:

Carcinogenic categories

IARC (International Agency for Research on Cancer)		
CAS: 64-17-5	ethyl alcohol	1
CAS: 108-95-2	phenol	3
CAS: 14808-60-7	quartz (SiO_2)	1
CAS: 50-00-0	formaldehyde	1
CAS: 108-10-1	4-methylpentan-2-one	2B

NTP (National Toxicology Program)		
CAS: 14808-60-7	quartz (SiO_2)	K
CAS: 50-00-0	formaldehyde	K

OSHA-Ca (Occupational Safety & Health Administration)	
CAS: 50-00-0	formaldehyde

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction):
Germ Cell Mutagenicity 2, Carcinogenicity 1A, Toxic to Reproduction 2
Germ cell mutagenicity Suspected of causing genetic defects.
Carcinogenicity May cause cancer.
Reproductive toxicity: Suspected of damaging fertility or the unborn child.
STOT-single exposure: Causes damange to the nervous system (optic nerve, CNS)
STOT-repeated exposure:
May cause damange to organs through prolonged or repeated exposure (kidney, liver, skin, nervous system).
Aspiration hazard: Based on available data, the classification criteria are not met.

* 12 Ecological information

Toxicity

Aquatic toxicity:	
CAS: 9003-35-4 formaldehyde, oligomeric reaction products with phenol	
EC50	172 mg/L (Daphnia pulex) (48h)
	575 mg/L (Scenedesmus quadricauda) (24h)
LC50	185 mg/L (Oncorhynchus mykiss) (48h)
CAS: 1330-78-5 Tricresyl phosphate	
NOEC	0.56 Rainbow trout mg/L (fish)
EC50	0.4042 mg/L /3 day (algae)
	0.146 mg/L /2 day (Daphnia magna)
	0.6 mg/L /4 day (fish)

(Contd. on page 13)

CAS: 108-95-2 phenol	
EC50	3.1 mg/L /48h (Ceriodaphnia dubia)
	61.1 mg/L /96h (Pseudokirchneriella subcapitata)
LC50	8.9 mg/L /96h (Oncorhynchus mykiss)
CAS: 71-36-3 butan-1-ol	
EC10	2,476 mg/L (Pseudomonas putida) (17h)
EC50	1,328 mg/L (Daphnia magna) (48h)
	225 mg/L (Selenastrum capricornum) (96h)
LC50	1,376 mg/L (Pimephales promelas) (96h)
CAS: 67-56-1 methanol	
EC50	18,260 mg/L (Daphnia magna) (96h OECD Guideline 202)
	22,000 mg/L (Pseudokirchneriella subcapitata) (96h)
LC50	87.5 mg/L /6h (rat)
CAS: 123-42-2 4-hydroxy-4-methylpentan-2-one	
EC50	>1,000 mg/L (activated sludge) (3h, OECD 209)
	>1,000 mg/L (Daphnia magna) (48h, OECD 202)
	>1,000 mg/L (Pseudokirchneriella subcapitata) (72h, OECD 201)
LC50	>100 mg/L (Oryzias latipes) (96h, OECD 203)
CAS: 108-10-1 4-methylpentan-2-one	
EC50	>200 mg/L (Daphnia magna) (OECD - Prüfrichtlinie 202)
	275 mg/L (Pseudomonas putida)
LC50	>179 mg/L (Danio rerio) (OECD-Prüfrichtlinie 203)

Persistence and degradability No further relevant information available.
Bioaccumulative potential No further relevant information available.
Mobility in soil No further relevant information available.

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

Other adverse effects No further relevant information available.

* 13 Disposal considerations

Waste treatment methods
Recommendation:
Waste material must be disposed of in accordance with Federal, State & Local environmental control regulations . Incineration is a recommended technology. Empty containers must be handled with care due to product residue. Decontaminate containers prior to disposal. Do not heat/cut empty container with electric or gas torch.

(Contd. on page 14)

US

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

Uncleaned packagings:
Recommendation: Disposal must be made according to official regulations.

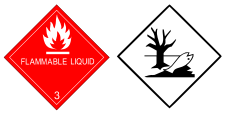
* 14 Transport information

UN-Number
DOT, IMDG, IATA UN1263

UN proper shipping name
DOT Paint
IMDG PAINT, MARINE POLLUTANT
IATA PAINT

Transport hazard class(es)

DOT



Class 3 Flammable liquids
Label 3

IMDG

Class 3 Flammable liquids
Label 3

IATA

Class 3 Flammable liquids
Label 3

Packing group
DOT, IMDG, IATA II

Environmental hazards: Product contains environmentally hazardous substances: Tricresyl phosphate

(Contd. on page 15)

Marine pollutant: Yes (DOT)
Symbol (fish and tree)

Special precautions for user Warning: Flammable liquids
Hazard identification number (Kemler code): 33
EMS Number: F-E,S-D
Stowage Category B

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not determined

Transport/Additional information:

DOT
Quantity limitations On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L
Remarks: Special marking with the symbol (fish and tree).
Limited quantities (LQ) 5L

IMDG
Limited quantities (LQ) 5L
Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

UN "Model Regulation": UN 1263 PAINT, 3, II, ENVIRONMENTALLY HAZARDOUS

* 15 Regulatory information

TSCA (Toxic Substances Control Act):
All ingredients are listed.

Hazardous Air Pollutants

CAS: 108-95-2	phenol
CAS: 67-56-1	methanol
CAS: 50-00-0	formaldehyde
CAS: 108-10-1	4-methylpentan-2-one

Proposition 65

Chemicals known to cause cancer:

CAS: 14808-60-7	quartz (SiO_2)
CAS: 50-00-0	formaldehyde
CAS: 108-10-1	4-methylpentan-2-one

Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed.

(Contd. on page 16)

US

Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed.

Chemicals known to cause developmental toxicity:	
CAS: 64-17-5	ethyl alcohol
CAS: 67-56-1	methanol
CAS: 108-10-1	4-methylpentan-2-one

Chemical safety assessment

Seveso category

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

National regulations:

Additional classification according to Decree on Hazardous Materials: Carcinogenic hazardous material group III (dangerous).

16 Other information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not valid for the new made-up material.

Training hints

The product should only be handled by persons, who were informed sufficiently about the nature of the product and about the necessary safety precautions.

Date of preparation / last revision 01/06/2023

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
BEI: Biological Exposure Limit
Flammable Liquids 2: Flammable liquids – Category 2
Flammable Liquids 3: Flammable liquids – Category 3
Acute Toxicity - Oral 3: Acute toxicity – Category 3
Acute Toxicity - Oral 4: Acute toxicity – Category 4
Acute Toxicity - Inhalation 2: Acute toxicity – Category 2
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B

(Contd. on page 17)

Skin Irritation 2: Skin corrosion/irritation – Category 2
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Sensitization - Skin 1: Skin sensitisation – Category 1
Germ Cell Mutagenicity 2: Germ cell mutagenicity – Category 2
Carcinogenicity 1A: Carcinogenicity – Category 1A
Carcinogenicity 1B: Carcinogenicity – Category 1B
Carcinogenicity 2: Carcinogenicity – Category 2
Toxic to Reproduction 2: Reproductive toxicity – Category 2
Specific Target Organ Toxicity - Single Exposure 1: Specific target organ toxicity (single exposure) – Category 1
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

Sources Data arise from reference works and literature.

*** Data compared to the previous version altered.**