Safety Data Sheet

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Name: Paint Reducing Solvent Product Code: S-215

MANUFACTURER : Heresite Protective Coatings, LLC
822 S. 14th Street
Manitowoc, WI 54220, USA

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EMERGENCY PHONE: CHEMTREC
+1 (800) 424-9300

E-MAIL ADDRESS OF PERSON RESPONSIBLE:
peter@heresite.com

Product Use: Used for thinning of Heresite coatings.
Not recommended for: Any other application

SECTION 2: HAZARDS IDENTIFICATION

GHS Ratings:

Flammable liquid	2	Flash point < 23°C and initial boiling point > 35°C (95°F)
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
Eye corrosive	2B	Mild eye irritant: Subcategory 2B, Reversible in 7 days
Mutagen	1B	Known-to-produce heritable mutations in human germ cellsSubcategory 1B, Positive results: In vivo heritable germ cell tests in mammals, Human germ cell tests, In vivo somatic mutagenicity tests, combined with some evidence of germ cell mutagenicity
Carcinogen	1A	Known Human Carcinogen Based on human evidence
Reproductive toxin	1A	Based on human evidence

Signal Word: Danger

GHS Hazards

H225	Highly flammable liquid and vapour
H315	Causes skin irritation
H320	Causes eye irritation
H340	May cause genetic defects
H350	May cause cancer
H360	May damage fertility or the unborn child

GHS Precautions

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/light/equipment

P242	Use only non-sparking tools
P243	Take precautionary measures against static discharge
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P321	Specific treatment (see SDS)
P362	Take off contaminated clothing and wash before reuse
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	If exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice / attention
P337+P313	If eye irritation persists: Get medical advice/attention
P370+P378	In case of fire: Use CO2, dry chemical, or foam for extinction.
P405	Store locked up
P403+P235	Store in a well-ventilated place. Keep cool
P501	Dispose of contents/container to in accordance with local/regional/national/international regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Weight Concentration %
Ethanol	64-17-5	75.00% - 95.00%
Methanol	67-56-1	2.50% - 10.00%
Methyl Iso Butyl Ketone	108-10-1	1.00% - 2.50%
Water	7732-18-5	2.50% - 10.00%

SECTION 4 - FIRST AID MEASURES

General Advice

If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.

Inhalation

Remove to fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen if a qualified operator is available. Get medical attention.

Eye Contact

Immediately flush eyes with large amounts of water for at least 20 minutes, while holding eyelids open. Obtain medical attention immediately, as a precaution.

Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion

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

No information available

Indication of any immediate medical attention and special treatment needed

Consult a physician

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable extinguishing media
Carbon Dioxide, Dry Chemical, Foam
Unsuitable extinguishing media
None identified
Special hazards arising from the substance or mixture
None identified

Advice for firefighters
No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
Wear protective equipment. Keep unprotected persons away.
Keep people at a distance and stay on the windward side.
Ensure adequate ventilation.
Keep away from ignition sources.
Environmental precautions:
Do not allow product to reach sewage system or water bodies.
Inform respective authorities in case product reaches water or sewage system.
Prevent from spreading (e.g. by damming-in or oil barriers).
Keep dirty washing solution for appropriate disposal.
Methods and material for containment and cleaning up:
Ensure adequate ventilation and proper training.
Absorb with liquid-binding non combustible material (e.g. sand).
Clean the accident area carefully.
Send for recovery or disposal in suitable containers.
Reference to other sections:
See Section 2, 7, 8 and 13

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling:
See Section 2
Conditions for safe storage:
Store in a well-ventilated place.
Keep cool.
Store with only compatible materials.
Specific end uses(s):
See Section 1

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
Ethanol 64-17-5	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL	NIOSH: 1000 ppm TWA; 1900 mg/m3 TWA
Methanol 67-56-1	200 ppm TWA; 260 mg/m3 TWA	250 ppm STEL 200 ppm TWA	NIOSH: 200 ppm TWA; 260 mg/m3 TWA 250 ppm STEL; 325 mg/m3 STEL
Methyl Iso Butyl Ketone 108-10-1	100 ppm TWA; 410 mg/m3 TWA	75 ppm STEL 20 ppm TWA	NIOSH: 50 ppm TWA; 205 mg/m3 TWA 75 ppm STEL; 300 mg/m3 STEL

Additional information about design of technical systems:
Engineering controls should be used as a primary means to control exposures.
Make available emergency shower and eye wash at the workplace according to appropriate standards.
A workplace risk assessment must be carried out in order to determine the corrective engineering control and organizational measures and personal protective equipment.
No further data; see Section 7.

Exposure controls

Appropriate engineering controls:
No data available
General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed.
Take off immediately all contaminated clothing.
Launder work clothing regularly.
Wash hands before breaks and at the end of the work.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Do not eat, drink or smoke while working to limit potential ingestion of chemicals.

Personal Protective Equipment

Eye and Face Protection:
Wear eye protection/face protection.
Skin Protection:
Wear protective gloves/protective clothing.
Hand Protection:
The glove material has to be impermeable and resistant to the product.
Due to missing tests no recommendation to the glove material can be given for the product.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.
Respiratory Protection:
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.

Environmental Exposure Controls:
See Section 6.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: No Data Found	**Odor:** No Data Found
Vapor Pressure: 44.5 mmHg	**Odor threshold:** No Data Found
Vapor Density: 1.6	**pH:** No Data Found
Specific Gravity 0.81	**Melting point:** No Data Found
Freezing point: No Data Found	**Solubility:** No Data Found
Boiling range: No Data Found	**Flash point:** 52 F,11 C
Evaporation rate: No Data Found	**Flammability:** No Data Found
Explosive Limits: No Data Found	**Partition coefficient (n-octanol/water):** No Data Found

Autoignition temperature: No Data Found	**Decomposition temperature:** No Data Found
Viscosity: No Data Found	**Grams VOC less water:** No Data Found

SECTION 10: STABILITY AND REACTIVITY

Reactivity:
No known hazards with respect to reactivity when handled and stored according to provisions.
Chemical Stability:
Stable under recommended storage and handling conditions.
Thermal decomposition / conditions to avoid:
Avoid exposure to heat, sources of ignition, and open flame. No decomposition if used according to specifications.
Possibility of hazardous reactions:
No data available.
Conditions to avoid:
High Temperatures.
Heat, flames and sparks.
See section 2.
Incompatible materials:
No further information available.

Strong Oxidizers
Alkali Metals
Ammonia
Peroxides
Heat/sparks/open flames/hot surfaces.
Acid Chlorides
Acid Anhydrides
Oxidizing agents
Reducing Agents
Acids
Extremes of temperature and direct sunlight.
Strong bases

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

SECTION 11: TOXICOLOGICAL INFORMATION

Mixture Toxicity
Inhalation Toxicity LC50: 109mg/L
Component Toxicity
108-10-1 Methyl Iso Butyl Ketone
Oral LD50: 2,080 mg/kg (Rat) Dermal LD50: 3,000 mg/kg (Rabbit) Inhalation LC50: 8 mg/L (Rat)

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.
Routes of Entry:
No Information Available
Exposure to this material may affect the following organs:
Blood Eyes Kidneys Liver Central Nervous System Reproductive System
Skin GI Tract Heart Respiratory System
Effects of Overexposure
May be harmful if inhaled. Causes respiratory tract irritation..

May be harmful if absorbed through skin. Causes skin irritation.

Irritating to eyes.

May be harmful if swallowed

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation..
Skin Contact	Toxic if absorbed through skin. Causes skin burns
Eyes	Irritating to eyes.
Ingestion	Toxic if swallowed

CAS Number	Description	% Weight	Carcinogen Rating
64-17-5	Ethanol	75% to 95%	Ethanol: IARC: Human carcinogen OSHA: listed
108-10-1	Methyl Iso Butyl Ketone	1.0% to 2.5%	Methyl Iso Butyl Ketone: IARC: Possible human carcinogen OSHA: listed

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:
No ecotoxicological data for the substance itself are available.
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:
No data available
Other adverse effects:
No further relevant information available.

Component Ecotoxicity

Ethanol	96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through] 48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]
Methanol	96 Hr LC50 Pimephales promelas: 28200 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 19500 - 20700 mg/L [flow-through]; 96 Hr LC50 Oncorhynchus mykiss: 18 - 20 mL/L [static]; 96 Hr LC50 Lepomis macrochirus: 13500 - 17600 mg/L [flow-through]
Methyl Iso Butyl Ketone	96 Hr LC50 Pimephales promelas: 496 - 514 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 170 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: 400 mg/L

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods:

Waste material must be disposed of I/A/W 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.

SECTION 14: TRANSPORT INFORMATION

Environmental hazards:

No information available

Special precautions for users:

No information available.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not required, not intended to be carried in bulk tankers.

Agency	Proper Shipping Name	UN Number	Packing Group	Hazard Class
IATA	Ethyl alcohol	1170	II	3
IMDG	Ethyl alcohol	1170	II	3
USDOT	Ethyl alcohol	1170	II	3

SECTION 15: REGULATORY INFORMATION

Classification:

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

108-10-1 Methyl Iso Butyl Ketone 1.0% to 2.5%
67-56-1 Methanol 2.5% to 10.0%
64-17-5 Ethanol 75% to 95%

Clean Air Act

108-10-1 Methyl Iso Butyl Ketone 1.0% to 2.5%
67-56-1 Methanol 2.5% to 10.0%
7732-18-5 Water 2.5% to 10.0%
64-17-5 Ethanol 75% to 95%

Clean Water Act

- None

SARA Section 302

108-10-1
67-56-1

OSHA Hazards

108-10-1 Methyl Iso Butyl Ketone 1.0% to 2.5% Carcinogen, Flammable liquid, Target Organ Effect, Irritant
67-56-1 Methanol 2.5% to 10.0% Flammable liquid, Target Organ Effect, Harmful /skin absorption, Irritant, Toxic by ingestion
64-17-5 Ethanol 75% to 95% Flammable liquid, Target Organ Effect, Irritant

- None

SARA 311/312

108-10-1 Fire Hazard, Chronic Health Hazard, Acute Health Hazard
67-56-1 Fire Hazard, Chronic Health Hazard, Acute Health Hazard
64-17-5 Fire Hazard, Chronic Health Hazard, Acute Health Hazard

SARA 313

108-10-1 Methyl Iso Butyl Ketone 1.0% to 2.5%
67-56-1 Methanol 2.5% to 10.0%

TSCA (Toxic Substance Control Act)

108-10-1 Methyl Iso Butyl Ketone 1.0% to 2.5%
7732-18-5 Water 2.5% to 10.0%

TSCA (Toxic Substance Control Act) 8b

108-10-1 Methyl Iso Butyl Ketone 1.0% to 2.5%
67-56-1 Methanol 2.5% to 10.0%
7732-18-5 Water 2.5% to 10.0%
64-17-5 Ethanol 75% to 95%

Country	Regulation	All Components Listed
USA	New Jersey Right to Know	No
USA	Pennsylvania Right to Know	No
USA	Massachusetts Right to Know	No
AU	Australia inventory	No
CA	Canadian Domestic Substances List/Non-Domestic Substa	No
EU	European inventory	No
JP	Japan inventory	No
CN	China inventory	No
Korea	Korean Existing and Evaluated Chemical Substances	No
NZ	New Zealand inventory	No
PH	Philippine The Toxic Substances and Hazardous and Nucle	No
Canada		No

EU Risk Phrases

Safety Phrase

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations part 372.

SECTION 16: OTHER INFORMATION

Hazardous Material Information System (HMIS)

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

HMIS & NFPA Hazard Rating
Legend
*** = Chronic Health Hazard**
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH

DISCLAIMER: The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties,

expressed or implied, and assume no liability in connection with any use of this information.

Date revised: 2021-09-08 Reviewer Revision 5

Date Prepared: 9/8/2021