

**SECTION 1: Identification**

**1.1. Identification**

Product form : Mixture  
 Product name : RustArmour

**1.2. Recommended use and restrictions on use**

Use of the substance/mixture : Rust Encapsulator coating for rusted metal substrates

**1.3. Supplier**

H.I.S. Coatings and Paints (Toll Manufacturer)  
 1700 West Sheridan  
 Oklahoma City, OK 73106  
 1-(800) 553-2077

**1.4. Emergency telephone number**

Emergency number : 1-(800) 553-2077

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**GHS-US classification**

Flam. Liq. 3  
 Carc. 2  
 Asp. Tox. 1

**2.2. GHS Label elements, including precautionary statements**

**GHS-US labeling**

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

Flammable liquid and vapor  
 Suspected of causing cancer  
 May be fatal if swallowed and enters airways

Precautionary statements (GHS-US) :

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Keep container tightly closed  
 Ground/Bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge  
 Wear protective gloves/protective clothing/eye protection/face protection  
 If swallowed: Immediately call a poison center/doctor  
 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
 If exposed or concerned: Get medical advice/attention  
 Do NOT induce vomiting  
 Store in a well-ventilated place. Keep cool  
 Store locked up  
 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

**2.3. Other hazards which do not result in classification**

No additional information available

**2.4. Unknown acute toxicity (GHS US)**

Not applicable

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according to the Hazard Communication Standard (CFR29 1910.1200) HazCom 2012.

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%
Naphtha, petroleum, hydrotreated light	(CAS-No.) 64742-49-0	1 - 20
Ligroine	(CAS-No.) 8032-32-4	10 - 20
Methyl n-amyl ketone	(CAS-No.) 110-43-0	1 - 10
2-Pentanone, 4-methyl-	(CAS-No.) 108-10-1	1 - 10
Vinyltoluenes	(CAS-No.) 25013-15-4	0.1 - 2

\*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. IF exposed or concerned: Get medical advice/attention.
First-aid measures after skin contact	: If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash clothing before re-using. Get medical attention if irritation develops and persists.
First-aid measures after eye contact	: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: IF SWALLOWED: immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### 4.3. Immediate medical attention and special treatment, if necessary

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.

#### 5.2. Specific hazards arising from the chemical

Fire hazard	: Flammable liquid and vapor. Products of combustion may include, and are not limited to: oxides of carbon.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
Reactivity	: No dangerous reactions known under normal conditions of use.

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting	: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Use special care to avoid static electric charges. Remove all sources of ignition.
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##### 6.1.1. For non-emergency personnel

No additional information available

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### 6.1.2. For emergency responders

No additional information available

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

- For containment : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
- Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

### 6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.
- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke.
- Hygiene measures : Wash contaminated clothing before reuse. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed.
- Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Naphtha, petroleum, hydrotreated light (64742-49-0)		
Not applicable		
Ligroine (8032-32-4)		
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Methyl n-amyl ketone (110-43-0)		
ACGIH	ACGIH TWA (ppm)	50 ppm
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	465 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
IDLH	US IDLH (ppm)	800 ppm
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	465 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm
2-Pentanone, 4-methyl- (108-10-1)		
ACGIH	ACGIH TWA (ppm)	20 ppm
ACGIH	ACGIH STEL (ppm)	75 ppm
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	410 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
IDLH	US IDLH (ppm)	500 ppm
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	205 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	50 ppm
NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>

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<b>2-Pentanone, 4-methyl- (108-10-1)</b>		
NIOSH	NIOSH REL (STEL) (ppm)	75 ppm
<b>Vinyltoluenes (25013-15-4)</b>		
ACGIH	ACGIH TWA (ppm)	50 ppm
ACGIH	ACGIH STEL (ppm)	100 ppm
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
IDLH	US IDLH (ppm)	400 ppm
NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	480 mg/m <sup>3</sup>
NIOSH	NIOSH REL (TWA) (ppm)	100 ppm

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Wear suitable gloves

#### Eye protection:

Wear eye/face protection

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. 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.

#### Other information:

Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Black liquid.
Color	: Black
Odor	: slight
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 187 °F
Flash point	: 73.4 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Flammable liquid and vapor
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1 g/cm <sup>3</sup>
Specific gravity / density	: 8.34 lb/gal
Solubility	: No data available
Partition coefficient n-octanol/water	: No data available
Auto-ignition temperature	: No data available

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Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions. May form flammable/explosive vapor-air mixture.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Heat. Sources of ignition. Direct sunlight.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

May release flammable gases. May include, and are not limited to: oxides of carbon.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

<b>Naphtha, petroleum, hydrotreated light (64742-49-0)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat	73680 ppm/4h
ATE US (gases)	73680 ppmV/4h
<b>Ligroine (8032-32-4)</b>	
LC50 inhalation rat	3400 ppm/4h
ATE US (gases)	3400 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
<b>Methyl n-amyl ketone (110-43-0)</b>	
LD50 oral rat	1600 mg/kg
LD50 dermal rabbit	12.6 ml/kg
LC50 inhalation rat	2000 - 4000 ppm (Exposure time: 6 h)
ATE US (oral)	1600 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h
<b>2-Pentanone, 4-methyl- (108-10-1)</b>	
LD50 oral rat	2080 mg/kg
LD50 dermal rabbit	3000 mg/kg
LC50 inhalation rat	8.2 mg/l/4h
ATE US (oral)	2080 mg/kg body weight
ATE US (dermal)	3000 mg/kg body weight
ATE US (gases)	700 ppmV/4h
ATE US (vapors)	8.2 mg/l/4h

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<b>2-Pentanone, 4-methyl- (108-10-1)</b>	
ATE US (dust, mist)	0.5 mg/l/4h
<b>Vinyltoluenes (25013-15-4)</b>	
LD50 oral rat	4000 mg/kg
ATE US (oral)	4000 mg/kg body weight

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified.
Carcinogenicity	: Suspected of causing cancer.

<b>2-Pentanone, 4-methyl- (108-10-1)</b>	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity
In OSHA Hazard Communication Carcinogen list	Yes

<b>Vinyltoluenes (25013-15-4)</b>	
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
Symptoms/effects after eye contact	: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Other information	: Likely routes of exposure: ingestion, inhalation, skin and eye.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

<b>Methyl n-amyl ketone (110-43-0)</b>	
LC50 fish 1	126 - 137 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
<b>2-Pentanone, 4-methyl- (108-10-1)</b>	
LC50 fish 1	496 - 514 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	170 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Vinyltoluenes (25013-15-4)</b>	
LC50 fish 1	23.4 mg/l (Exposure time: 96 h - Species: Pimephales rafinesque)

### 12.2. Persistence and degradability

<b>RustArmour</b>	
Persistence and degradability	Not established.

### 12.3. Bioaccumulative potential

<b>RustArmour</b>	
Bioaccumulative potential	Not established.

<b>Methyl n-amyl ketone (110-43-0)</b>	
Partition coefficient n-octanol/water	1.98

<b>2-Pentanone, 4-methyl- (108-10-1)</b>	
Partition coefficient n-octanol/water	1.19

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Vinyltoluenes (25013-15-4)	
BCF fish 1	32 - 35
Partition coefficient n-octanol/water	3.36

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

### 2-Pentanone, 4-methyl- (108-10-1)

1990 Hazardous Air Pollutant (Clean Air Act)	Yes
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Other information : No other effects known.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Handle empty containers with care because residual vapors are flammable.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT

UN-No.(DOT) : UN1993  
Proper Shipping Name (DOT) : Flammable liquids, n.o.s. (Petroleum Distillates, 2-Pentanone, 4-methyl-, Methyl n-amyl ketone)  
Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120  
Packing group (DOT) : III  
Hazard labels (DOT) :



## SECTION 15: Regulatory information

### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

### 15.2. International regulations

No additional information available

### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16: Other information

Date of issue : 05/25/2017  
Revision date : 05/25/2017  
Other information : None.  
Prepared by : Nexreg Compliance Inc.  
[www.Nexreg.com](http://www.Nexreg.com)



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