



TRI-CHEM

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RUST GUARD PRODUCT LINE



RUST GUARD PRODUCT LINE

RUST GUARD LV

Rust Guard LV is an oil-based, chemical resistant coating with a low VOC. It provides a tough chemical resistant coating that is used on interior or exterior metal, interior wood, plaster or masonry. It can be used for striping and line marking.












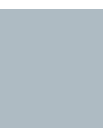
RUST GUARD ACRYLIC LATEX

Rust Guard Acrylic Latex is a water-based, chemical resistant coating with a low VOC. It is an acrylic latex enamel formulated to protect and beautify interior and exterior wood, metal, or masonry surfaces. It is an excellent direct to metal application and is corrosion resistant. Rust Guard Acrylic Latex can be used for striping and line marking.

RUST GUARD PRODUCT FEATURES:

- Low VOC
- Requires no aging or special primer
- Resists acids, alkalies, water, mildew and fungus
- Quick drying
- Does not crack or peel
- Easy to apply
- Easily cleaned
- 300–400 sq. ft. per gallon coverage (varies)
- Available in a variety of colors as well as clear

RUST GUARD PRODUCT COLOR SELECTOR:

							
Fire (Safety) Red	Sundance (Safety) Orange	Sunburst (Safety) Yellow	Brilliant (Safety) Blue	Spring Green	Navy Blue	Gloss White or Satin White	Bronzetone
							
Light Gray	Machinery Gray	Hunter Green	Burgundy	Gloss Black	Satin Black	Fern Green	Aluminum

RUST GUARD LV

Chemical Resistant Coating – Low VOC

DESCRIPTION

RUST GUARD LV provides a tough chemical resistant coating. Use on interior or exterior metal, interior wood, plaster or masonry. Can be used for striping & line marking.

FEATURES

- Requires no aging or special primer
- Resists acids, alkalis, water, mildew and fungus
- Quick drying
- Does not crack or peel
- Easy to apply
- Easily cleaned
- 300 – 450 square feet per gallon coverage
- Available in 18 colors as well as clear

HOW TO USE

Proper surface preparation is of prime importance in securing maximum performance of any paint. Surfaces must be clean and free from dust, dirt, grease, mildew, soap residue, excessive chalking and any other foreign matter. Sand off all loose paint. Sand glossy surfaces and dust all surfaces thoroughly before painting. Two coats of RUST GUARD LV are recommended on new unpainted surfaces. On previously painted surfaces in good condition, apply 1 or 2 coats of RUST GUARD LV. Stir thoroughly and apply by brush, roller or spray at an average spreading rate of 400-450 sq. ft. per gallon. Square foot averages may vary depending on surface. RUST GUARD LV dries to the touch in 4-6 hours, and requires 18-24 hours dry time between coats. Do not paint when air or surface temperature will be below 50° F within 24 hours of application, or on surfaces hot from direct afternoon sun. Do not mix with water.

SPECIFICATIONS

Physical Form	colored liquid
Color	various
Odor	mild paint
Specific Gravity	1.03
Flash Point (TCC)	104°F

HMIS SYMBOL

Health	2
Flammability	2
Reactivity	0



TRI-CHEM

RUST GUARD LV

CHEMICAL RESISTANT COATING LOW VOC

CAUTION

PLEASE REFER TO THE SDS SHEETS FOR MORE DETAILED PRECAUTIONARY MEASURES, HANDLING INSTRUCTIONS AND EMERGENCY PROCEDURES.

Combustible liquid and vapor harmful or fatal if swallowed. Contains Titanium Dioxide CAS #13463-67-7,

Parachlorobenzotrifluoride CAS #98-56-6, Cobalt Carboxylate (proprietary), and Mineral Spirits CAS #8052-41-3. The balance of chemicals in this mixture are either considered non-hazardous or are below the listing limits (1% for hazardous substances, 0.10% for special hazardous) under various State Right-To-Know Laws. These chemicals are considered trade secrets. The specific chemical identity of these chemicals is available to health professionals. VAPOR HARMFUL. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN, NOSE AND THROAT IRRITATIONS.

FIRST-AID

INHALATION - If you experience difficulty in breathing, leave the area to obtain fresh air. If continues difficulty is experienced, get medical assistance immediately. **EYES** - Flush with copious amount of water for at least 15 minutes, lifting lids and removing contact lenses to ensure complete irrigation - get medical attention immediately. **INGESTION** - DO NOT INDUCE VOMITING - get medical attention immediately.

RUST GUARD LV can be applied over old coatings after loose or cracked paints are removed. It resists acids, alkalies, water, mildew and fungus; requires no primer; is quick drying; requires no aging; is easily applied; does not crack or peel; and is easily cleaned. Rust Guard LV is recommended for use on exterior metal and masonry and for interior metal and plaster. Can be used for striping & line marking.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. **USE ONLY WITH ADEQUATE VENTILATION.** Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator. Close container after each use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

WARNING: KEEP OUT OF REACH OF CHILDREN

DIRECTIONS

Proper surface preparation is of prime importance in securing maximum performance of any paint. Surfaces must be clean and free from dust, dirt, grease, mildew, soap residue, excessive chalking and any other foreign matter. Sand off all loose paint. Sand glossy surfaces and dust all surfaces thoroughly before painting. Two coats of Rust Guard LV are recommended on new unpainted surfaces. On previously painted surfaces in good condition, apply 1 or 2 coats. Stir thoroughly and apply by brush, roller or spray at an average spreading rate of 400-450 sq. ft. per gallon. Square foot averages may vary depending on surface. Rust Guard LV dries to the touch in 4-6 hours, and requires 18-24 hours dry time between coats. Do not paint when air or surface temperature will be below 50° F within 24 hours of application, or on surfaces hot from direct afternoon sun. Do not mix with water.

HMS SYMBOL



Health	2
Fire	2
Reactivity	0
Personal Protection	

1 Identification

- **Product identifier:**
- **Product Name:** Rust Guard LV
- **Product Number:** 611-92 LV
- **Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information available.
- **Manufacturer/Supplier:**
Tri-Chem Corporation
431 Stephenson Hwy.
Troy, MI 48083
USA
- **Information telephone number:** 800-456-6255
- **Emergency telephone number:** 800-535-5053

2 Hazard identification

- **Classification of the substance or mixture:**
Flam. Liq. 3 H226 Flammable liquid and vapor.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Muta. 1B H340 May cause genetic defects.
Carc. 1B H350 May cause cancer.
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS02 GHS07 GHS08

- **Signal word:** Danger
- **Hazard-determining components of labeling:**
Distillates (petroleum), hydrotreated light
titanium dioxide
octamethylcyclotetrasiloxane
Naphtha (petroleum), hydrotreated heavy
2-Ethylhexanoic Acid, Zirconium Salt
2-butanone oxime
- **Hazard statements:**
Flammable liquid and vapor.
May cause an allergic skin reaction.
May cause genetic defects.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May be fatal if swallowed and enters airways.
- **Precautionary statements:**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves / eye protection / face protection.

Safety Data Sheet

according to OSHA HCS 2012 (CFR 29 1910.1200)

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Ground/bond container and receiving equipment.
 Keep container tightly closed.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Contaminated work clothing must not be allowed out of the workplace.
 Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 If swallowed: Immediately call a doctor.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 Specific treatment (see on this label).
 Wash contaminated clothing before reuse.
 IF exposed or concerned: Get medical advice/attention.
 If skin irritation or rash occurs: Get medical advice/attention.
 Do NOT induce vomiting.
 In case of fire: Use for extinction: CO₂, sand, extinguishing powder.
 Store locked up.
 Store in a well-ventilated place. Keep cool.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



· **Other hazards:**

· **Results of PBT and vPvB assessment:**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixture**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Hazardous components:**

64742-47-8	Distillates (petroleum), hydrotreated light	20-<25%
13463-67-7	titanium dioxide	10-20%
556-67-2	octamethylcyclotetrasiloxane	5-<10%
471-34-1	calcium carbonate	5-<10%
98-56-6	4-chloro-alpha,alpha,alpha-trifluorotoluene	2.5-5%
64741-65-7	Naphtha (petroleum), heavy alkylate	2.5-5%
22464-99-9	2-Ethylhexanoic Acid, Zirconium Salt	0.1- 0.5%
96-29-7	2-butanone oxime	0.1- 0.5%

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64742-48-9 Naphtha (petroleum), hydrotreated heavy

0.1- 0.5%

4 First-aid measures:

- **Description of first aid measures:**
- **For inhalation:** Supply fresh air; consult doctor in case of complaints.
- **For skin contact:** Immediately rinse with water.
- **For eye contact:** Rinse opened eye for several minutes under running water.
- **For swallowing:**
Do not induce vomiting; immediately call for medical help.
A person vomiting while lying on their back should be turned onto their side.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Fire-fighting measures:

- **Extinguishing media:**
- **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters:**
- **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures:

- **Personal precautions, protective equipment and emergency procedures:**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, universal binder or other inert absorbent).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **Reference to other sections:**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage:

- **Handling:**
- **Precautions for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.

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Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities:**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

8 Exposure controls/personal protection:

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters:**

· **Components with limit values that require monitoring at the workplace:**

471-34-1 calcium carbonate

PEL Long-term value: 15* 5** mg/m³
*total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction

TLV TLV withdrawn

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls:**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before eating, smoking, using the restroom and at the end of the workday.

Store protective clothing separately.

· **Breathing equipment:**

In case of brief exposure or low concentrations, use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· **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:**



Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties:**

· **General Information:**

· **Appearance:**

Form: Liquid

Color: Light Tint Base

· **Odor:** Pungent

· **Odour threshold:** Not determined.

· **pH-value:** Not applicable.

· **Change in condition:**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: > 139 °C (> 282 °F)

· **Flash point:** 40 °C (104 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** 210 °C (410 °F)

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

· **Explosion limits:**

Lower: 0.5 Vol %

Upper: 6.5 Vol %

· **Vapor pressure at 20 °C (68 °F):** 2 hPa (2 mm Hg)

· **Density at 20 °C (68 °F):** 1.159 g/cm³ (9.672 lbs/gal)

· **Relative density:** Not determined.

· **Vapour density:** Heavier than air.

· **Evaporation rate:** Slower than ether.

· **Solubility in / Miscibility with:**

Water: Not miscible or difficult to mix.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic: Not determined.

Kinematic: Not determined.

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· Solvent content:	
Organic solvents:	37.5 %
VOC content:	25.3 %
	<340 g/l
· Solids content:	
	62.5 %
· Other information:	No further relevant information available.

10 Stability and reactivity

- **Reactivity:**
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Do not store or use near sparks, flame, or other ignition sources.
- **Incompatible materials:** Strong acids and alkalis, bleach, strong oxidizers.
- **Hazardous decomposition products:**
Burning may yield carbon monoxide, carbon dioxide, oxides of nitrogen, and various hydrocarbons.

11 Toxicological information

- **Information on toxicological effects:**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

64742-48-9 Naphtha (petroleum), hydrotreated heavy

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Carcinogenic.
The product can cause inheritable damage.

- **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer):**

13463-67-7	titanium dioxide	2B
1330-20-7	xylene	3
68955-83-9	Fatty Acids, C9-13-neo-, cobalt salts	2B
100-41-4	ethylbenzene	2B
14808-60-7	Quartz (SiO ₂)	1
27253-31-2	Neodecanoic Acid,, cobalt salt	2B
14464-46-1	cristobalite	1
111-76-2	2-butoxyethanol	3

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· **NTP (National Toxicology Program):**

14808-60-7 Quartz (SiO₂)

K

14464-46-1 cristobalite

K

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients is listed.

12 Ecological information

· **Toxicity:**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability:** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential:** No further relevant information available.

· **Mobility in soil:** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **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:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **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**

This material has a flash point at or above 38°C and may be reclassified as a combustible liquid. A combustible liquid in non-bulk packaging (≤450 liters; ≤119 gallons) is exempt from the DOT regulation when transported by ground.

Paint

· **IMDG, IATA**

PAINT

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· Transport hazard class(es):	
· DOT	
· Class	3 Flammable liquids This material has a flash point at or above 38°C and may be reclassified as a combustible liquid. A combustible liquid in non-bulk packaging (≤450 liters; ≤119 gallons) is exempt from the DOT regulation when transported by ground.
· Label	3
· IMDG, IATA	
· Class	3 Flammable liquids
· Label	3
· Packing group:	
· DOT, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user:	Warning: Flammable liquids
· Danger code (Kemler):	30
· EMS Number:	F-E, <u>S-E</u>
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations:	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· IMDG	
· Limited quantities (LQ):	5L
· Excepted quantities (EQ):	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN1263, Paint, 3, III

US

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture:
- SARA:

· Section 355 (extremely hazardous substances):

None of the ingredients is listed.

· Section 313 (Specific toxic chemical listings):

1330-20-7	xylene
71-36-3	butan-1-ol
68955-83-9	Fatty Acids, C9-13-neo-, cobalt salts
100-41-4	ethylbenzene
27253-31-2	Neodecanoic Acid,, cobalt salt
111-77-3	2-(2-methoxyethoxy)ethanol
111-76-2	2-butoxyethanol

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65:

· Chemicals known to cause cancer:

13463-67-7	titanium dioxide
100-41-4	ethylbenzene
14808-60-7	Quartz (SiO ₂)
14464-46-1	cristobalite

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories:

· EPA (Environmental Protection Agency)

1330-20-7	xylene	I
71-36-3	butan-1-ol	D
100-41-4	ethylbenzene	D
111-76-2	2-butoxyethanol	NL

· TLV (Threshold Limit Value established by ACGIH)

13463-67-7	titanium dioxide	A4
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
14808-60-7	Quartz (SiO ₂)	A2
14464-46-1	cristobalite	A2
111-76-2	2-butoxyethanol	A3

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· NIOSH-Ca (National Institute for Occupational Safety and Health)	
13463-67-7	titanium dioxide
14808-60-7	Quartz (SiO ₂)
14464-46-1	cristobalite

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

· **Hazard pictograms:**



GHS02 GHS07 GHS08

· **Signal word:** Danger

· **Hazard-determining components of labeling:**

Distillates (petroleum), hydrotreated light
titanium dioxide
octamethylcyclotetrasiloxane
Naphtha (petroleum), hydrotreated heavy
2-Ethylhexanoic Acid, Zirconium Salt
2-butanone oxime

· **Hazard statements:**

Flammable liquid and vapor.
May cause an allergic skin reaction.
May cause genetic defects.
May cause cancer.
Suspected of damaging fertility or the unborn child.
May be fatal if swallowed and enters airways.

· **Precautionary statements:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Use explosion-proof electrical/ventilating/lighting/equipment.
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves / eye protection / face protection.
Ground/bond container and receiving equipment.
Keep container tightly closed.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If swallowed: Immediately call a doctor.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
Do NOT induce vomiting.
In case of fire: Use for extinction: CO₂, sand, extinguishing powder.
Store locked up.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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- **National regulations:**
- **Information about limitation of use:**
Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** Laboratory
- **Contact:** Laboratory Manager
- **Date of preparation / last revision:** 09/08/2015 / -
- **Abbreviations and acronyms:**
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 ACGIH: American Conference of Governmental Industrial Hygienists
 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)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 Flam. Liq. 3: Flammable liquids, Hazard Category 3
 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
 Muta. 1B: Germ cell mutagenicity, Hazard Category 1B
 Carc. 1B: Carcinogenicity, Hazard Category 1B
 Repr. 2: Reproductive toxicity, Hazard Category 2
 Asp. Tox. 1: Aspiration hazard, Hazard Category 1

US

RUST GUARD ACRYLIC LATEX

Chemical Resistant Coating—Low VOC

DESCRIPTION

Rust Guard Acrylic Latex provides a tough chemical resistant coating for masonry, wood or metal. It is an acrylic latex enamel formulated to protect and beautify interior and exterior wood, metal, or masonry surfaces. Low odor/low VOC. Excellent direct to metal application and corrosion resistance. Can be used for striping & line marking. Soap and water clean-up.

FEATURES

- Requires no aging or special primer
- Resists acids, alkalies, water, mildew and fungus
- Quick drying
- Does not crack or peel
- Easy to apply
- Easily cleaned
- 300-400 sq. ft. per gallon coverage (depending on the porosity of the substrate)
- Available in 18 colors as well as clear

COLORS

White, black, fire red, shamrock green, safety yellow, Charleston green, light grey, safety orange, safety blue, walnut, bronzetone, LTB, MTB, DTB, CLB

HOW TO USE

Proper surface preparation is of prime importance in securing maximum performance of any paint. Surfaces must be clean and free from dust, dirt, grease, mildew, soap residue, excessive chalking and any other foreign matter. Sand off all loose paint. Sand glossy surfaces and dust all surfaces thoroughly before painting. Two coats of Rust Guard Acrylic Latex are recommended on new unpainted surfaces. On previously painted surfaces in good condition, apply 1 or 2 coats of Rust Guard Acrylic Latex. Stir thoroughly and apply by brush, roller or spray at an average spreading rate of 400-450 sq. ft. per gallon. Square foot averages may vary depending on surface. Rust Guard Acrylic Latex dries to the touch in 4-6 hours, and requires 18-24 hours dry time between coats. Do not paint when air or surface temperature will be below 50°F within 24 hours of application, or on surfaces hot from direct afternoon sun. Do not mix with water.

SPECIFICATIONS

Physical Form	Colored Liquid
Color	Various
Odor	Mild Paint
Flash Point (TCC)	200°F

HMIS SYMBOL

Health	1
Flammability	1
Reactivity	0



TRI-CHEM

RUST GUARD ACRYLIC LATEX

CAUTION

PLEASE REFER TO THE SDS SHEETS FOR MORE DETAILED PRECAUTIONARY MEASURES, HANDLING INSTRUCTIONS AND EMERGENCY PROCEDURES. Contains Diethylene Glycol Monobutyl Ether CAS# 112-34-5, Silicon Dioxide - Silica CAS# 14808-60-7, Calcium Carbonate CAS# 1317-65-3, Titanium Dioxide CAS# 13463-67-7, Iron Oxide (Red) CAS# 1332-37-2, Iron Oxide (Yellow) CAS# 51274-001, Carbon Black CAS# 1333-86-4

FIRST-AID

EYES - Flush with large amount of water. Consult a physician if irritation persists.
SKIN - wipe off excess and then wash thoroughly with soap and water. Consult a physician if irritation persists. **INHALATION** - If affected, remove person to fresh air and consult a physician. If breathing is difficult, administer oxygen and get medical attention. If breathing has stopped, give artificial respiration and get medical attention immediately. Keep person warm and quiet. **INGESTION** - Get medical attention immediately. **DO NOT INDUCE VOMITING** unless directed to do so by qualified medical personnel. Aspiration of material into lungs can cause chemical pneumonitis, which can be fatal. Keep person warm and quiet.

RUST GUARD ACRYLIC LATEX is formulated to protect and beautify interior and exterior wood, metal, or masonry surfaces. Low odor/low VOC. It has excellent corrosion resistance, outstanding toughness and durability on wood.

RECOMMENDED USES: Machinery, tanks, implements, furniture, tractors, boats, trucks, trailers and buses. Idea for use on all similar surfaces where a heavy-duty coating is required. **DO NOT** mix with oil colors, other paint or solvents.

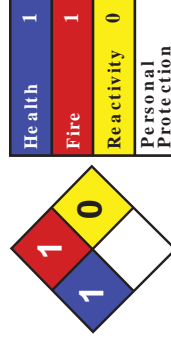
Quick Drying
Easy to Apply
Easily Cleaned

300-400 sq. ft. per Gallon Coverage

SURFACE PREP & APPLICATION

- All surfaces must be clean and free of dust, dirt, grease, mildew, soap residue, loose paint, glue size and any other foreign matter. For best results, the cause of any previous paint failure should be corrected before repainting.
- New stucco or masonry surfaces should age at least 30 days before being painted.
- Previously painted surfaces should be cleaned, patched and spot-primed as needed. Surfaces in poor condition may require the removal of old paint and a prime coat.
- Unpainted surfaces should receive one coat of the recommended primer before painting; bare material should be coated with a proper Rust Guard metal primer to optimize rust-inhibitive properties. Two coats of this product are recommended on most surfaces.
- Application Temp: Min. 50°F, Max 90°F
- Drying Time: Tack Free in 4 hrs, Recoat 12 hrs, Hard in 24 hrs
- Clean up with soap and water

HMS SYMBOL



WARNING: KEEP OUT OF REACH OF CHILDREN

1 Identification

- **Product identifier:**
- **Product Name:** Rust Guard Acrylic Latex
- **Product Number:** 622-92
- **Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information available.
- **Manufacturer/Supplier:**
Tri-Chem Corporation
431 Stephenson Hwy.
Troy, MI 48083
USA
- **Information telephone number:** 800-456-6255
- **Emergency telephone number:** 800-535-5053

2 Hazard identification

- **Classification of the substance or mixture:**
Carc. 2 H351 Suspected of causing cancer.
Repr. 1B H360 May damage fertility or the unborn child.
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms:**



GHS08

- **Signal word:** Danger
- **Hazard-determining components of labeling:**
titanium dioxide
benzyl butyl phthalate
- **Hazard statements:**
Suspected of causing cancer.
May damage fertility or the unborn child.
- **Precautionary statements:**
Wear protective gloves/protective clothing/eye protection/face protection.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
IF exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 1
Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	1	Fire = 1
REACTIVITY	0	Reactivity = 0

· **Other hazards:**

· **Results of PBT and vPvB assessment:**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixture**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Hazardous components:**

13463-67-7	titanium dioxide	10-20%
112-34-5	2-(2-butoxyethoxy)ethanol	2.5-5%
85-68-7	benzyl butyl phthalate	0.5- 1%

4 First-aid measures:

· **Description of first aid measures:**

· **For inhalation:** Supply fresh air; consult doctor in case of complaints.

· **For skin contact:** Generally the product does not irritate the skin.

· **For eye contact:** Rinse opened eye for several minutes under running water.

· **For swallowing:**

Do not induce vomiting; immediately call for medical help.

A person vomiting while lying on their back should be turned onto their side.

· **Information for doctor:**

· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

5 Fire-fighting measures:

· **Extinguishing media:**

· **Suitable extinguishing agents:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture:** No further relevant information available.

· **Advice for firefighters:**

· **Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental release measures:

· **Personal precautions, protective equipment and emergency procedures:** Not required.

· **Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

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Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

· **Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, universal binder or other inert absorbent).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage:

· **Handling:**

· **Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:** Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities:**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:** No special requirements.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

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

8 Exposure controls/personal protection:

· **Additional information about design of technical systems:** No further data; see item 7.

· **Control parameters:**

· **Components with limit values that require monitoring at the workplace:**

112-34-5 2-(2-butoxyethoxy)ethanol

TLV Long-term value: 67.5* mg/m³, 10* ppm

*Inhalable fraction and vapor

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls:**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before eating, smoking, using the restroom and at the end of the workday.

Store protective clothing separately.

· **Breathing equipment:**

In case of brief exposure or low concentrations, use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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· **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **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:** Goggles recommended during refilling.

9 Physical and chemical properties

· **Information on basic physical and chemical properties:**

· **General Information:**

· **Appearance:**

Form:	Liquid
Color:	High Gloss Light Tint Base
Odor:	Mild
Odour threshold:	Not determined.

· **pH-value at 20 °C (68 °F):** 9

· **Change in condition:**

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	> 100 °C (> 212 °F)

· **Flash point:** 94 °C (201 °F)

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:**

Decomposition temperature: Not determined.

· **Auto igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower:	Not determined.
Upper:	Not determined.

· **Vapor pressure at 20 °C (68 °F):** 23 hPa (17 mm Hg)

· **Density at 20 °C (68 °F):** 1.174 g/cm³ (9.797 lbs/gal)

· **Relative density:** Not determined.

· **Vapour density:** Heavier than air.

· **Evaporation rate:** Slower than ether.

· **Solubility in / Miscibility with:**

Water: Fully miscible.

· **Partition coefficient (n-octanol/water):** Not determined.

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· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	6.6 %
Water:	47.6 %
VOC content:	6.6 %
	<250 g/l
Solids content:	45.7 %
· Other information:	No further relevant information available.

10 Stability and reactivity

- **Reactivity:**
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** Do not store or use near sparks, flame, or other ignition sources.
- **Incompatible materials:** Strong acids and alkalis, bleach, strong oxidizers.
- **Hazardous decomposition products:**
Burning may yield carbon monoxide, carbon dioxide, oxides of nitrogen, and various hydrocarbons.

11 Toxicological information

- **Information on toxicological effects:**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

85-68-7 benzyl butyl phthalate

Oral LD50 2330 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

- **Carcinogenic categories:**

- **IARC (International Agency for Research on Cancer):**

13463-67-7	titanium dioxide	2B
85-68-7	benzyl butyl phthalate	3
7631-86-9	silicon dioxide, chemically prepared	3

- **NTP (National Toxicology Program):**

None of the ingredients is listed.

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· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients is listed.

12 Ecological information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Ecotoxical effects:**
- **Remark:** Harmful to fish
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Harmful to aquatic organisms
- **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:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information:

- | | |
|--------------------------------------|---------------|
| · UN-Number: | |
| · DOT, IMDG, IATA | Not Regulated |
| · UN proper shipping name: | |
| · DOT, IMDG, IATA | Not Regulated |
| · Transport hazard class(es): | |
| · DOT, IMDG, IATA | |
| · Class | Not Regulated |
| · Packing group: | |
| · DOT, IMDG, IATA | Not Regulated |
| · Environmental hazards: | |
| · Marine pollutant: | No |

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· **Special precautions for user:** Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

· **UN "Model Regulation":** -

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

· **SARA:**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

1336-21-6 ammonia

7632-00-0 sodium nitrite

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65:**

· **Chemicals known to cause cancer:**

13463-67-7 titanium dioxide

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

85-68-7 benzyl butyl phthalate

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency)**

85-68-7 benzyl butyl phthalate

C

· **TLV (Threshold Limit Value established by ACGIH)**

13463-67-7 titanium dioxide

A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7 titanium dioxide

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

· **Hazard pictograms:**



GHS08

· **Signal word:** Danger

· **Hazard-determining components of labeling:**
titanium dioxide

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benzyl butyl phthalate

· **Hazard statements:**

Suspected of causing cancer.

May damage fertility or the unborn child.

· **Precautionary statements:**

Wear protective gloves/protective clothing/eye protection/face protection.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

IF exposed or concerned: Get medical advice/attention.

Store locked up.

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

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Laboratory

· **Contact:** Laboratory Manager

· **Date of preparation / last revision:** 08/04/2015 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

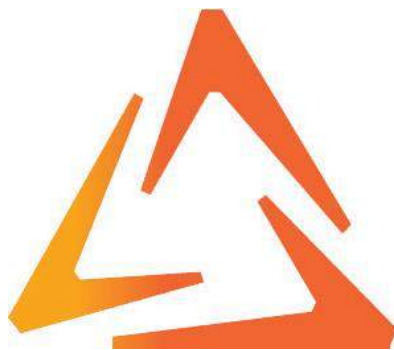
LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Carc. 2: Carcinogenicity, Hazard Category 2

Repr. 1B: Reproductive toxicity, Hazard Category 1B

US



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