

SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Trade name : Rust Primer

1.2. Recommended use and restrictions on use

Recommended use : Corrosion resistance and rust converting primer
 Restrictions on use : All other uses not recommended above

1.3. Supplier

Fluid Applied Roofing
 830 Space Drive
 Beavercreek, Ohio 45434
 T 855.860.2300
Info@fluidappliedroofing.com

1.4. Emergency telephone number

Emergency number : For Hazardous Materials or Dangerous Goods Incident Spill, Leak, Fire, Exposure, or Accident
 Call CHEMTREC Day or Night: 1-800-424-9300 (Toll Free, USA) / 703-527-3887 (Virginia, USA)
 CCN 1014222

SECTION 2: Hazard(s) identification


2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation Category 2	Causes skin irritation
Serious eye damage/eye irritation Category 2	Causes serious eye irritation
Skin sensitization, Category 1	May cause an allergic skin reaction
Carcinogenicity Category 1B	May cause cancer
Full text of H statements : see section 16	

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) : 

Signal word (GHS US) : Danger

Hazard statements (GHS US) : Causes skin irritation
 May cause an allergic skin reaction
 Causes serious eye irritation
 May cause cancer

Precautionary statements (GHS US) : Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Avoid breathing mist, spray, vapors, gas.
 Wash hands, forearms and face thoroughly after handling.
 Contaminated work clothing must not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.

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If on skin: Wash with plenty of water.
If skin irritation or rash occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
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.
If exposed or concerned: Get medical advice/attention.
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)

5.19% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral)
34.72% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
11.29% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
tert-Butyl acetate	CAS-No.: 540-88-5	0.1 – 5	Flam. Liq. 2, H225 Aquatic Acute 2, H401
(2-Methoxymethylethoxy)propanol	CAS-No.: 34590-94-8	0.5 – 4	Flam. Liq. 4, H227
Petroleum distillates, solvent dewaxed heavy	CAS-No.: 64742-65-0	0.04 – 3.5	Carc. 1B, H350
Petroleum distillates, solvent dewaxed light paraffinic	CAS-No.: 64742-56-9	0.01 – 1.5	Carc. 1B, H350
Silane	CAS-No.: Proprietary	0.05 – 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but not mouth-to-mouth.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get immediate medical advice/attention.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

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.

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First-aid measures after ingestion : Rinse mouth. If the person is fully conscious, make him/her drink water (8 ounces / 240mL). Never give an unconscious person anything to drink. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a poison center/doctor/physician if you feel unwell.

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

Symptoms/effects after inhalation : Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact : May cause an allergic skin reaction. May cause moderate irritation. Irritation (itching, redness, blistering).
Symptoms/effects after eye contact : Stinging, redness, itching, tears, blurred vision, swelling.
Symptoms/effects after ingestion : Gastrointestinal disturbances.
Most Important Symptoms/Effects : Irritation to eyes, skin and respiratory tract.
Chronic symptoms : May cause cancer.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry chemical, CO₂, dry sand, or alcohol-resistant foam.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : No fire hazard.
Hazardous decomposition products in case of fire : Toxic fumes may be released. Thermal decomposition generates : Ammonia. Carbon dioxide. Carbon monoxide. Nitrous oxide. Sulphur oxides.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire with normal precautions from a reasonable distance. If possible, take container out of dangerous zone. Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid all personal contact including breathing in the gas, mist, spray, vapors. Do not take actions involving personal risks.

6.1.1. For non-emergency personnel

Protective equipment : Wear the recommended personal protective equipment.
Emergency procedures : Evacuate the danger area. If outdoors, move to an area upwind of the danger area. If possible without taking personal risks, remove ignition sources, ventilate area. Prevent other non-emergency personnel from entering the danger area.

6.1.2. For emergency responders

Protective equipment : Wear the recommended personal protective equipment.
Emergency procedures : Evacuate personnel to a safe area. Ventilate spillage area.

6.2. Environmental precautions

Do not let the product reach soil, drains, sewers, or surface and ground water.

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6.3. Methods and material for containment and cleaning up

For containment	: Contain with non-combustible inert absorbent.
Methods for cleaning up	: Take up in non-combustible inert absorbent and place into container for disposal. Decontaminate surfaces and equipment with water and detergent. Until a sufficient level of dilution is achieved, the decontamination water may pose the same hazards as the product. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Wear personal protective equipment. Do not get in eyes, on skin, or on clothing.
Hygiene measures	: Always wash hands after handling the product. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.
Storage temperature	: > 10 °C / 50 °F

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

Petroleum distillates, solvent dewaxed light paraffinic (64742-56-9)

No additional information available

Petroleum distillates, solvent dewaxed heavy (64742-65-0)

No additional information available

tert-Butyl acetate (540-88-5)

USA - ACGIH - Occupational Exposure Limits

Local name	tert-Butyl acetate
ACGIH OEL TWA	50 ppm
ACGIH OEL STEL	150 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr
Regulatory reference	ACGIH 2023

USA - OSHA - Occupational Exposure Limits

Local name	tert-Butyl-acetate
OSHA PEL TWA	950 mg/m ³

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tert-Butyl acetate (540-88-5)	
	200 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
(2-Methoxymethylethoxy)propanol (34590-94-8)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Dipropylene glycol methyl ether (DPGME)
ACGIH OEL TWA	50 ppm
Remark (ACGIH)	TLV® Basis: Liver & CNS eff
Regulatory reference	ACGIH 2023
USA - OSHA - Occupational Exposure Limits	
Local name	Dipropylene glycol methyl ether
OSHA PEL TWA	600 mg/m ³ 100 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Silane (Proprietary)	
No additional information available	

8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Use general ventilation, local exhaust ventilation or process enclosure to keep the airborne concentrations below the permissible exposure limits.
- Environmental exposure controls : Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment.

Hand protection:
Wear protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Body protection should be chosen depending on activity and possible exposure. Wear suitable protective clothing
Respiratory protection:
[In case of inadequate ventilation] wear respiratory protection.

Personal protective equipment symbol(s):



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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid.
Appearance	: Solid in suspension.
Color	: Red
Odor	: No data available
Odor threshold	: No data available
pH	: 9
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: 100 °C / 212 °F
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 11 pounds/gallon at 23 °C/73 °F
Solubility	: Soluble in water.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: 800 cP 23 °C / 73 °F
Explosion limits	: Not applicable
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

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

Stable under normal conditions of use.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials

Oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates : Ammonia. Carbon monoxide. Carbon dioxide. Nitrogen oxides. Sulphur oxides.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

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Unknown acute toxicity (GHS US)	5.19% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 34.72% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 11.29% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))
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Petroleum distillates, solvent dewaxed light paraffinic

LD50 oral rat	> 5000 mg/kg body weight
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Petroleum distillates, solvent dewaxed heavy

LD50 oral rat	> 5000 mg/kg body weight
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LC50 Inhalation - Rat	> 5.53 mg/l/4h
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tert-Butyl acetate

LD50 dermal rabbit	> 2000 mg/kg body weight
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(2-Methoxymethylethoxy)propanol

LD50 oral rat	> 5000 mg/kg body weight
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LD50 dermal rat	> 19020 mg/kg body weight
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LD50 dermal rabbit	9510 mg/kg body weight
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Skin corrosion/irritation : Causes skin irritation.
pH: 9
Serious eye damage/irritation : Causes serious eye irritation.
pH: 9
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer.
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified

Petroleum distillates, solvent dewaxed light paraffinic

LOAEL (oral,rat,90 days)	125 mg/kg body weight
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NOAEC (inhalation,rat,dust/mist/fume,90 days)	> 0.98 mg/l air
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Petroleum distillates, solvent dewaxed heavy

LOAEL (oral,rat,90 days)	125 mg/kg body weight
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NOAEC (inhalation,rat,dust/mist/fume,90 days)	> 0.98 mg/l air
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(2-Methoxymethylethoxy)propanol

NOAEL (oral,rat,90 days)	1000 mg/kg body weight
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Aspiration hazard : Not classified
Viscosity, kinematic : Not applicable

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tert-Butyl acetate

Viscosity, kinematic	< 1 mm ² /s
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Symptoms/effects after inhalation	: Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/effects after skin contact	: May cause an allergic skin reaction. May cause moderate irritation. Irritation (itching, redness, blistering).
Symptoms/effects after eye contact	: Stinging, redness, itching, tears, blurred vision, swelling.
Symptoms/effects after ingestion	: Gastrointestinal disturbances.
Most Important Symptoms/Effects	: Irritation to eyes, skin and respiratory tract.
Chronic symptoms	: May cause cancer.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

tert-Butyl acetate

LC50 - Fish [1]	240 mg/l
EC50 - Crustacea [1]	350 mg/l
EC50 72h - Algae [1]	16 mg/l
EC50 72h - Algae [2]	6.1 mg/l
EC50 96h - Algae [1]	64 mg/l
EC50 96h - Algae [2]	5.8 mg/l

(2-Methoxymethylethoxy)propanol

LC50 - Fish [1]	> 1000 mg/l
EC50 - Other aquatic organisms [1]	1930 mg/l
EC50 72h - Algae [1]	> 969 mg/l
EC50 96h - Algae [1]	> 969 mg/l
LOEC (chronic)	0.5 mg/l
NOEC (chronic)	≥ 0.5 mg/l

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose of this material and its container at hazardous or special waste collection point. Refer to all applicable national, international and local regulations or provisions.
Ecological information	: Avoid release to the environment.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
Not regulated	Not regulated	Not regulated
14.2. Proper Shipping Name		
Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not regulated	Not regulated	Not regulated
14.4. Packing group		
Not regulated	Not regulated	Not regulated
14.5. Environmental hazards		
Not regulated	Not regulated	Not regulated
No supplementary information available		

14.6. Special precautions for user

DOT
Not regulated

IMDG
Not regulated

IATA
Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Silane	CAS-No. Proprietary	0.05 – 1%
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Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Ammonia	CAS-No. 7664-41-7	0.1 – 5%
Copper (II) nitrate	CAS-No. 3251-23-8	0 – 0.009%

tert-Butyl acetate (540-88-5)

CERCLA RQ	5000 lb
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15.2. International regulations

CANADA

Petroleum distillates, solvent dewaxed light paraffinic (64742-56-9)

Listed on the Canadian DSL (Domestic Substances List)

Petroleum distillates, solvent dewaxed heavy (64742-65-0)

Listed on the Canadian DSL (Domestic Substances List)

tert-Butyl acetate (540-88-5)

Listed on the Canadian DSL (Domestic Substances List)

(2-Methoxymethylethoxy)propanol (34590-94-8)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Petroleum distillates, solvent dewaxed heavy (64742-65-0)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

tert-Butyl acetate (540-88-5)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

(2-Methoxymethylethoxy)propanol (34590-94-8)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-phrases

H225	Highly flammable liquid and vapor
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Full text of H-phrases	
H227	Combustible liquid
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H350	May cause cancer
H401	Toxic to aquatic life

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.