SAFETY DATA SHEET

Section 1 - Chemical Product and Company Information

Product Name: 1201 Red, Air-Dry Enamel Product Code: 1201

Trade Name: Glyptal

Manufactured by: IN CASE OF EMERGENCY:

GLYPTAL, INC. CHEMTREC 1-800-424-9300

305 Eastern Ave. Chelsea, MA 02150 Telephone (617) 884-6918

Product Use: Coatings

Not recommended for: Nonindustrial Use

Section 2 - Hazards Identification

NFPA Raings, risk phrases, and suggested WHMIS Hazard Categories:

GHS Ratings:

Flammable liquid	3	Flash point >= 23°C and <= 60°C (140°F)
Dermal Toxicity	Acute Tox. 4	Dermal>1000+<=2000mg/kg
Inhalation Toxicity	Acute Tox. 4	Gases>2500+<=5000ppm, Vapors>10+<=20mg/l,
		Dusts&mists>1+<=5mg/l
Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: >=
		2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Carcinogen	2	Limited evidence of human or animal carcinogenicity
Organ toxin single	3	Transient target organ effects- Narcotic effects- Respiratory
exposure		tract irritation
Aspiration hazard	1	Aspiration Toxicity Category 1: Known (regarded)- human
		evidence - hydrocarbons with kinematic viscosity < or = 20.5
		mm2/s at 40° C.
Aquatic toxicity	C2	Acute toxicity > 1.00 but <= 10.0 mg/l and lack of rapid
		degradability and log Kow >= 4 unless BCF < 500 and
		unless chronic toxicity > 1 mg/l

GHS Hazards

H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H351	Suspected of causing cancer
H401	Toxic to aquatic life

GHS Precautions

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
D264	Week akin thereughly ofter handling

P264 Wash skin thoroughly after handling

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P271 Use only outdoors or in a well-ventilated area P273 Avoid release to the environment P280 Wear protective gloves/protective clothing/eye protection/face protection P331 Do NOT induce vomiting Take off contaminated clothing and wash before reuse P362 P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P305+P351+P338 IF IN EYES: Rinse continuously 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 dry sand, dry chemical or alcohol-resistant foam for extinction P403+P233 Store in a well ventilated place. Keep container tightly closed P403+P235 Store in a well ventilated place. Keep cool P501 Dispose of contents/container to an approved waste disposal plant

Signal Word: Danger







Section 3 - Composition/Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
Xylene (mixed isomers)	1330-20-7	30.00% - 40.00%
Aliphatic Petroleum Distillates	64742-89-8	5.00% - 10.00%
Ethylbenzene	100-41-4	1.00% - 5.00%

Section 4 - First Aid Measures

INHALATION - Remove from area to fresh air. If symptomatic, contact a poison control center, emergency room, or physician as further medical treatment may be necessary. Administer oxygen if a qualified operator is available.

EYE CONTACT - In case of eye contact, flush the eyes with water for fifteen (15) minutes. If contact lenses are worn, quickly remove them, then flush the eyes with water. If irritation persists, contact a poison control center, emergency room, or physician as further medical treatment may be necessary.

SKIN CONTACT - In case of skin contact, remove contaminated clothing. Flush the skin with large amounts of water, then wash the skin with soap and water. If symptoms persist, contact a poison control center, emergency room, or physician as further medical treatment may be necessary.

INGESTION - If material is ingested, seek immediate medical attention. Do not induce vomiting. If vomiting occurs spontaneously, keep the head below the hips to prevent aspiration of liquid into the lungs. Contact a poison control center, emergency room, or physician as further medical treatment will be necessary.

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Section 5 - Fire Fighting Measures

Flash Point: 29 C (84 F)

LEL: 1.00 UEL: 7.00

EXTINGUISHING MEDIA: Use carbon dioxide (CO2), "alcohol" foam, dry chemical

UNUSUAL FIRE OR EXPLOSION HAZARDS: The product vapor is heavier than air and may travel a considerable distance to a source of ignition and flashback. Closed containers may explode or burst when exposed to extreme heat. May produce hazardous decomposition products when exposed to extreme heat.

HAZARDOUS COMBUSTION PRODUCTS: See section 10 for a list of hazardous decomposition products for this mixture.

FIRE FIGHTING: Water spray may be ineefective. If water is used, fog nozzles are prefereable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If evacuation of personnel is necessary, evacuate to an upwind area. Decontaminate personnel and equipment with a water wash-down after fire and smoke exposure.

FIRE FIGHTING EQUIPMENT: Firemen and emergency responders: wear full turnout gear or Level A equipment, including positive-pressure, self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

SPILL AND LEAK PROCEDURES: Spill supervisor - Ensure cleanup personnel wear all appropriate Personal Protective Equipment (PPE), including respiratory protection. Remove all ignition sources. Keep nonessential personnel away from the contaminated area.

SMALL SPILLS: Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes.

Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

LARGE SPILLS: Prevent this material from entering sewers and watercourses by diking or impounding the spilled material. Advise authorities if the product has entered or may enter, sewers, watercourses, or extensive land areas.

Ventilate the contaminated area. Using nonsparking tools, mix the appropriate sorbent into the spilled material. Use an absorbent like sawdust for aqueous, waterborne, and solvent-borne coatings.

Collect the saturated sorbent and transfer it into a covered container. Steel containers are acceptable for all wastes except wastes which contain acid. Use suitable plastic containers for acid-bearing wastes.

Label the waste container. Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

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Section 7 - Handling and Storage

HANDLING PRECAUTIONS: Wear all appropriate Personal Protective Equipment (PPE). Wear respiratory protection or ensure adequate ventilation at all times as vapors can accumulate in confined or poorly ventilated areas. Use the product in a manner which minimizes splashes and/or the creation of dust. Keep containers closed when not in use. Do not handle or store material near heat, sparks, open flames, or other sources of ignition. Store at room temperatures, i.e., 50 to 85 F (10 to 30 C).

STORAGE: Prevent from freezing. Do not store above 95 F (35 C).

Store only in original containers.

Section 8 - Exposure Controls / Personal Protection						
Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits			
Xylene (mixed isomers) 1330-20-7	PEL 100 ppm - TWA PEL 150 ppm - STEL	TLV 100 ppm - TWA TLV 150 ppm - STEL	Not Established			
Aliphatic Petroleum Distillates 64742-89-8	TWA: 500 ppm / 2000 mg/m3 (Z-1) TWA: 400 ppm / 1600 mg/m3 (p0)	TWA: 300 ppm	Not Established			

STEL - 125 ppm TLV

TWA - 20 ppm TLV

ENGINEERING: Provide general dilution of local exhaust ventilation in volume and pattern to keep concentration of ingredients listed in Section 2 below the lowest suggested exposure limits, the LEL below the stated limit, and to remove decomposition products during welding or flame cutting.

STEL - 125 ppm (Z-1)

TWA - 100 ppm (Z-1)

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Ensure processing (curing) ovens are properly vented to prevent the introduction of processing fumes into the workplace. Use explosion-proof equipment and good manufacturing practice.

VENTILATION: Use only with adequate ventilation, i.e., ventilation in compliance with occupational exposure limits. Refer to OSHA standards 1910.94, 1910.107, 1910.108.

PERSONAL PROTECTIVE EQUIPMENT

EYES:

Ethylbenzene

100-41-4

Wear splash goggles. If extra protection is required, wear a face shield over the splash goggles. Face shields are effective only if worn in addition to splash goggles.

PROTECTIVE GLOVES:

Wear chemical-resistant gloves (butyl rubber or neoprene). Protective gloves should be inspected frequently and discarded when they exhibit cuts, tears, pinholes, or signs of excessive wear. If necessary, wear a chemical-resistant, butyl-rubber apron and other protective clothing, as deemed appropriate, to avoid skin contact with material.

RESPIRATORY PROTECTION:

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Not Established

Respiratory protection may not be needed if the local exhaust is sufficient to maintain levels of hazardous ingredients below occupational exposure limits. Where ventilation is inadequate, use a NIOSH/MSHA-approved, air-purifying respirator equipped with the appropriate chemical cartridges or positive-pressure, air-supplied respirator. Read the respirator manufacturer's instructions and literature carefully to determine the type of airborne contaminants against which the respirator is effective, its limitations, and how it is to be properly fitted and used.

CONTAMINATED EQUIPMENT: Dispose of the waste in compliance with all Federal, state, regional, and local regulations.

Section 9 - Physical and Chemical Properties

This mixture typically exhibits the following properties under normal circumstances:

Appearance Red Liquid
Physical State Liquid
Vapor Pressure 7.4 mm Hg @ 60 F
Boiling Range 116 to 144 °C

Lbs VOC/Gallon Solids 8.9

Odor Solvent odor

Vapor Density Heavier than air

Evaporation Rate Slower than ether

Specific Gravity (SG) 1.198 OC/Gallon Less Water 4.00

Lbs VOC/Gallon Less Water 4.00 and Exempt Solvent

Section 10 - Stability and Reactivity

Stability:

STABLE

Components of this mixture are incompatible with the following materials:

Strong oxidizing agents

This mixture is likely to exhibit the following combustion products:

Carbon Dioxide, Carbon Monoxide

Hazardous polymerization will not occur.

Section 11 - Toxicological Information

Component Toxicity

1330-20-7 Xylene (mixed isomers)

Oral LD50: 4,300 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Rabbit)

64742-89-8 Aliphatic Petroleum Distillates

Oral LD50: 5,000 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Rabbit)

100-41-4 Ethylbenzene

Oral LD50: 3,500 mg/kg (Rat)

Toxicological information: The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 3 and 15 for details.

Routes of Entry:

Inhalation Skin Contact Eye Contact Exposure to this material may affect the following organs:

Kidneys Liver Central Nervous System Reproductive System

Effects of Overexposure

100-41-4 Ethylbenzene

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Systemic Effects Chronic exposure to ethyl benzene causes fatigue, headache, and eye and upper

respiratory tract irritation. Repeated contact with the skin may cause drying, defatting,

and dermatitis.

Eye Contact May cause eye irritation. Vapor may be irritating to eyes.

Ingestion Aspiration hazard if swallowed. Can enter lungs and cause damage. May be fatal if

swallowed. Possible pneumonia if vomited.

Inhalation May cause respiratrory tract irritation. May cause mucous membrane irritation. Can

cause central nervous system (CNS) depression. Exposure at high concentrations may cause narcosis. Symptoms of narcosis include fatigue, drowsiness, staggering

gait, and incoordination.

Skin Contact Absorbed through skin. May cause skin irritation. Skin inflammation is characterized

by itching, scaling, reddening or, occasionally, blistering.

1330-20-7 Xylene (mixed)

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: redness of the face and neck, mouth and throat irritation (soreness, dry or scratchy feeling, cough), stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), tight feeling in the chest, central nervous system excitation (giddiness, liveliness, lightheaded feeling) followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, effects on memory, respiratory depression (slowing of the breathing rate), shortness of breath, loss of coordination, confusion, irregular heartbeat, narcosis

(dazed or sluggish feeling), coma.

Eye Contact May cause mild irritation. Symptoms include stinging, tearing, and redness.

Ingestion Swallowing small amounts of this material during normal handling is not likely to cause

harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other

lung injury.

Inhalation Breathing of vapor or mist is possible. Breathing small amounts of this material during

normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended

exposure limits.

Skin Contact Can cause skin irritation. Prolonged and repeated contact may dry the skin.

Symptoms may include redness, burning, and drying and cracking of the skin, burns and other skin damage. Additional symptoms of skin contact may include: skin blistering. Passage of this material into the body through the skin is possible, but it is

unlikely that this would result in harmful effects during safe handling and use.

64742-89-8 VM&P Naphtha

Signs of symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache,

unconsciousness).

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Eye Contact May cause mild irritation. Symptoms include stinging, tearing, and redness.

Ingestion Swallowing small amounts of this material during normal handling is not likely to cause

harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other

lung injury.

Inhalation Breathing of vapor or mist is possible. Breathing small amounts of this material during

normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended

exposure limits.

Skin Contact May cause mild skin irritation. Symptoms may include redness and burning of skin.

Passage of this material into the body through the skin is possible, but it is unlikely

that this would result in harmful effects during safe handling and use.

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing), or ACGIH (optional listing). See Section 15 for carcinogenicity assessment.

CAS NumberDescription% WeightCarcinogen Rating100-41-4Ethylbenzene1 to 5%IARC (2B)

ACGIH (A3)

Section 12 - Ecological Information

Component Ecotoxicity

Xylene (mixed isomers) 12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not

required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional

handling or disposal. Toxic to aquatic life.

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Aliphatic Petroleum Distillates

Toxicity to Fish LC50 (Oncorhynchus mykiss (rainbow trout)): 8.2 mg/l

Exposure time: 96 h

Toxicity to daphnia and EC50 (Daphnia magna (Water flea)): 4.5 mg/l

other aquatic invertebrates Exposure time: 48 h

Toxicity to algae EC50 (Pseudokirchneriella subcapitata (green algae)):

3.7 mg/l

Exposure time: 96 h

Ecotoxicology Assessment

Acute aquatic toxicity: Toxic to aquatic life.

Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.

Persistence and Biodegradability

Biodegradability: Concentration: 49.2 mg/l

Biodegradation :77% Testing Period: 2 d Exposure Time: 28 d

GLP: yes

Result: Readily biodegradable

Bioaccumulative Potential

Partition coefficient: n-octanol/water: Low Pow: 2.13-4.85 (25 C)

Mobility in Soil: No data available

Other Adverse Effects: No data available

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Ethylbenzene

12.1 Toxicity

Toxicity to fish flow-through test

5.1 mg/l - 96 h

LC50 - Menidia menidia (Atlantic silverside) -

Toxicity to daphnia and

2.4 mg/l - 48 h other aquatic invertebrates static test

EC50 - Daphnia magna (Water flea) - 1.8 -

Toxicity to algae static test

EC50 - Skeletonema costatum - 4.9 mg/l -

72 h

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 70 - 80 % - Readily biodegradable

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

Section 13 - Disposal Considerations

The provisions of Council Directive 91/689/EEC and subsequent Amendments and Decisions apply to wastes for the product as supplied.

Do not allow into drains or water courses.

Waste and emptied containers must be disposed of in accordance with:

- -Control of Pollution Act of 1974,
- -Special Waste Regulations 1996,
- -Duty of Care Regulations 1992.

Waste should be recycled or disposed of through a licensed waste management facility.

Section 14 - Transport Information

This material is classified for transport as follows:

Proper Shipping Name UN Number Packing Group Hazard Class <u>Agency</u> Paint DOT 1263

Section 15 - Regulatory Information

According to the Directive (1999/45/EC), relating of the classification packaging and labelling of dangerous substances

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and preparations, the product is labelled as follows:

State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING!

This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

100-41-4 Ethylbenzene 1 to 5 %

Carcinogenicity:

IARC: Group 2B: Possibly carcinogenic to humans

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Ethylbenzene 100-41-4

Carcinogenicity:

IARC - No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH - No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potention carcinogen by ACGIH.

OSHA - No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potention carcinogen by OSHA.

NTP - No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Aliphatic Petroleum Distillates 64742-89-8

Xylene (mixed isomers) 1330-20-7

Commonwealth of Massachusetts "Right to Know": This product contains the following toxic or hazardous substances which appear on the Massachusetts Substance List:

Ethylbenzene 1 to 5 % Xylene (mixed) 30 to 40 %

New Jersey Worker and Community Right To Know Hazardous Substance List: The following substances appear on the New Jersey Right To Know Hazardous Substance List.

Ethylbenzene 1 to 5 %

Aliphatic Petroleum Distillates 5 to 10 %

Xylene (mixed) 30 to 40 %

Commonwealth of Pennsylvania Worker and Community Right-To-Know Act: This product contains the following chemicals which appear on the Pennsylvania Hazardous Substance List:

100-41-4 64742-89-8 1330-20-7

Country Regulation All Components Listed





Toxic Substances Control Act (TSCA): All chemicals except those listed below appear in the Toxic Substances Control Act Chemical Substance Inventory:

- None

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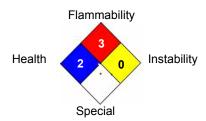
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40 of the Code of Federal Regulations, part 372.

Section 16 - Other Information

Hazardous Material Information System (HMIS)

HEALTH 2 FLAMMABILITY 3 PHYSICAL HAZARD 0 PERSONAL PROTECTION B HMIS & NFPA Hazard Rating Legend * = Chronic Health Hazard 0 = INSIGNIFICANT 1 = SLIGHT 2 = MODERATE 3 = HIGH

National Fire Protection Association (NFPA)



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Reviewer Revision

Date Prepared: 6/3/2015

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