

SAFETY DATA SHEET

SDS Review Date: 06/14/15

SDS Version Number: 1

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY

1.1 Product Identifier

Product Form: *Yellow Liquid*
Product Name: *Chlorinated Rubber*
Product Code: *2041*

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use for traffic marking.

1.3. Details of the supplier of the safety data sheet

Franklin Paint Company, Inc.
259 Cottage St.
Franklin, MA 02038
www.franklinpaint.com

1.4. Emergency telephone number

Emergency Information number : CHEMTEL 800-255-3924
Product Information number : Office 800-486-0304

SECTION 2: HAZARDS IDENTIFICATION

2.1. Hazard Classification of the substance or mixture

GHS-US Classification

Hazard	Hazard Category	Hazard Number
<i>Flammable liquids</i>	2	<i>H225</i>
<i>Serious eye damage/eye irritation</i>	2	<i>H319</i>
<i>Specific Target Organ Toxicity - Single Exposure</i>	3	<i>H336</i>
<i>Carcinogenicity</i>	1A	<i>H350</i>

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) – **DANGER**

Hazard statements (GHS-US)

Flammable liquid (H225)
Serious eye damage/eye irritation (H319)
May cause drowsiness or dizziness (H336)
May cause cancer (H350)

Precautionary statements (GHS-US)

Obtain special instructions before use. (P201)
Do not handle until all safety precautions have been read and understood. (P202)
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
Keep container tightly closed. (P233)
Ground/bond container and receiving equipment. (P240)
Use explosion-proof electrical/ventilating/light/.../equipment. (P241)
Use only non-sparking tools. (P242)
Take precautionary measures against static discharge. (P243)
Avoid breathing dust/fumes/gas/mist/vapours/spray. (P261)
Wash thoroughly after handling. (P264)
Use only outdoors or in a well-ventilated area. (P271)
Contaminated work clothing should not be allowed out of the workplace. (P272)
Wear protective gloves/protective clothing/eye protection/face protection. (P280)

IF ON SKIN: Wash with plenty of soap and water. (P302 + P352)
IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304 + P340)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338)
IF exposed or concerned: Get medical advice/attention. (P308 + P313)
Get medical advice/attention if you feel unwell. (P314)
Do NOT induce vomiting. (P331)
If eye irritation persists: Get medical advice/attention. (P337 + P313)
Take off contaminated clothing and wash it before reuse. (P362 + P364)
In case of fire: Stop leak if safe to do so. (P370+P376)
In case of fire: Evacuate area. (P370+P380)
Store in a well-ventilated place. Keep container tightly closed. (P403 + P233)
Store locked up (P405)
Dispose of contents/container in accordance with local/regional/national/international regulation (P501)

2.3. Other hazards

None known

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable

3.2. Mixture

Component	CAS No. EC No.	Percent	Hazard class / category / statement
Titanium Dioxide	13463-67-7 236-675-5	0.5 - 9.0	Carc. 2; H351
Calcium Carbonate	471-34-1 207-439-9	46.0 - 56.0	
Acetone	67-64-1 200-662-2	15.0 – 20.0	Flam. Liq. 2, H225 Eye Irrit. 2; H319 STOT SE 3; H336
Solvent naphtha, petroleum, light aliph.	64742-89-8 265-192-2	1.0 – 4.0	Asp. 1; H304 * Carc. 2; H351
Crystalline Silica	14808-60-7 EC No. NA	0.1 – 0.99	Carc. 1A; H350

* NA, Below GHS SDS Cut-off Value of 10% for Aspiration Hazards and product does not meet dynamic viscosity requirements.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General

No hazards which require special first aid measures.

Inhalation

If overexposed to vapors, mist or dust above published exposure limits, move to fresh air. If symptoms persist, GET IMMEDIATE MEDICAL ATTENTION. If not breathing, administer CPR until help arrives or the victim starts to breathe on their own. If breathing is difficult, give oxygen by trained personnel.

Skin Contact	<i>Wash skin immediately with soap and plenty of water while removing all contaminated clothing and shoes. Get medical attention if irritation develops or persists. Wash contaminated clothes before reuse.</i>
Eye Contact	<i>Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.</i>
Ingestion	<i>Rinse mouth with water if conscious. Do not induce vomiting. Potential for aspiration if swallowed. Material may enter the lungs during vomiting. Never give anything by mouth to an unconscious person. GET IMMEDIATE MEDICAL ATTENTION.</i>

4.2. Most important symptoms and effects, both acute and delayed

No information available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media: Carbon dioxide (CO₂), foam, dry chemical, water spray.

Unsuitable extinguishing media: Do not use solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Hydrochloric acid, carbon monoxide, carbon dioxide, and organic products of decomposition may be released in case of fire. Closed container may rupture if strongly heated. Empty containers may have some flammable product residue (liquid and/or vapor). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition as the container may explode causing injury or death. Empty containers should be completely drained, properly bunged and promptly returned to a drum re-conditioner or properly disposed.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Flammable liquid. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Closed containers may rupture when exposed to extreme heat.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Assure sufficient ventilation.

Use personal protective clothing.

Use NIOSH approved respiratory protection if exposed to vapors, dust, mist, or aerosols above published exposure limits.

6.2. Environmental precautions

Product sinks in water. Prevent spilled material from entering waterways or soil, The established CERCLA Reportable Quantity (RQ) for spilled and released hazardous substances present in the product collected for reuse or recycle is:

Acetone (RQ) = 5000 lbs.

If spilled hazardous substances are collected for disposal, classify as hazardous waste and comply with the requirements of the applicable CERCLA hazardous waste RQ. Spills or releases in the US equal to or greater than the RQ must be reported to the National Response Center at 800-424-8802.

6.3. Methods and material for containment and cleaning up

Absorb spill with inert material and place in a chemical waste container. Dispose of in accordance with federal, state, provincial and local laws and regulations. Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment.

6.4. Reference to other sections

See Section 8 for exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing. Avoid breathing vapors, spray mists or sanding dust.

Wear solvent impermeable gloves, such as Neoprene or butyl rubber gloves recommended.

Wash thoroughly after handling.

In case of insufficient ventilation, wear suitable respiratory equipment.

Remove contaminated clothing and wash it before reuse.

Do not eat, drink, smoke or chew tobacco around material.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store container at temperatures above 5 °C (40 °F) and less than 49 °C (120 °F). Keep out of the reach of children.

Incompatible products: Strong acids, strong bases, strong oxidizers.

Incompatible materials: *Chromic anhydride, chromyl chloride, hexachloromelamine, hydrogen peroxide, nitric acid and acetic acid, nitric acid and sulfuric acid, nitrosyl chloride, nitrosyl perchlorate, nitryl perchlorate, permonosulfuric acid, potassium tert-butoxide, thiodiglycol and hydrogen peroxide.*

7.3. Specific end use(s)

No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Chemical Name	ACGIH & Canada	OSHA & Mexico
Titanium Dioxide	<i>10 mg/m³ - TWA total 3 mg/m³ – TWA respirable</i>	<i>15 mg/m³ - TWA total 5 mg/m³ - TWA respirable</i>
Calcium Carbonate	<i>10 mg/m³ - TWA total 3 mg/m³ – TWA respirable</i>	<i>15 mg/m³ - TWA total 5 mg/m³ - TWA respirable</i>
Acetone	<i>500 ppm – 8 hr TWA 750 ppm – 15 min STEL</i>	<i>1000 ppm – 8 hr TWA</i>
Solvent naphtha, petroleum, light aliph.	<i>Not established</i>	<i>Not established</i>
Crystalline Silica	<i>0.025 mg/m³ 8hr TWA</i>	<i>10 mg/m³ / (%SiO₂+2) 8hr TWA respirable</i>

8.2. Exposure controls

Provide general and/or local exhaust ventilation to maintain airborne levels below the exposure limits in Section 8. Refer to the current edition of 'Industrial Ventilation: A Manual of Recommended Practice' published by the American Conference of Government Industrial Hygienists for information on the design, installation, use, and maintenance of exhaust systems.

8.3. Personal protective equipment

Protective measures *Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling*

Hygiene measures *Take off all contaminated clothing immediately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.*

- Respiratory protection** *In case of insufficient ventilation wear NIOSH approved respiratory equipment. If vapor exceeds TLV or PEL, use NIOSH approved air-purifying respirators equipped with organic vapor cartridges. Air-purifying respirators should be equipped with an ammonia methylamine cartridge and dust/mist filter.*
- Hand protection** *Wear water proof protective gloves and impervious clothing.*
- Eye protection** *Use safety glasses with side shields, (ANSI Z87.1 or approved equivalent).*

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	<i>Yellow Liquid</i>
Odor	<i>Acetone</i>
Odor Threshold	<i>13 ppm</i>
pH	<i>NA</i>
Melting/Freezing Point	<i>NA</i>
Boiling Point	<i>133 (°F), 56 (°C)</i>
Flash Point	<i>-4 (°F), -20 (°C)</i>
Evaporation rate	<i>1 (water = 1)</i>
Flammability (solid, gas)	<i>Not applicable</i>
Lower Explosion Limit	<i>0.9%</i>
Upper Explosion Limit	<i>12.6%</i>
Vapor Pressure	<i>40 mmHg</i>
Vapor Density	<i>2.0 (air = 1)</i>
Density Relative	<i>1.48</i>
Density (lbs./gal)	<i>12.34</i>
Solubility	<i>Insoluble in water.</i>
Wt. % Solids	<i>75.86</i>
Vol. % Solids	<i>54.35</i>
Wt. % Volatiles	<i>24.14</i>

Vol. % Volatiles	24.14
Grams VOCs/liter	150.00
Partition coefficient (o/w)	No data
Ignition Temp.	No data
Autoignition Temp.	869 (°F), 465 (°C)
Decomposition Temp.	No data
Oxidizing Properties	No data
Explosive Properties	Not applicable

9.2. Other information

No additional information available

SECTION 10: STABILITY AND REACTIVITY

- 10.1. **Reactivity:** Hazardous polymerization will not occur.
- 10.2. **Chemical stability:** Stable under normal conditions.
- 10.3. **Possibility of hazardous reactions:** Not applicable
- 10.4. **Conditions to avoid:** Prevent from freezing
- 10.5. **Incompatible materials:** Strong acids, strong bases, strong oxidizers.
- 10.6. **Hazardous Decomposition Products:** Hydrochloric acid, carbon monoxide, carbon dioxide, and organic products of decomposition may be released in case of fire.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution No data

Caustic burning/irritation of skin

Calcium Carbonate	Irritating
Titanium Dioxide	Irritating
Acetone	Irritating

Serious eye damage/eye irritation

Calcium Carbonate	Irritating
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Titanium Dioxide *Irritating*

Acute Oral Toxicity

Calcium Carbonate *LD50 Rat: 6450 mg/kg*

Titanium Dioxide *LD50 Rat: > 10000 mg/kg*

Acetone *LD50 Rat: 5800 mg/kg*

Acute Inhalational Toxicity

Titanium Dioxide *LC50 Rat inhalation 4 hr (Dust): > 6.82 mg/L*

Acetone *LC50 Rat inhalation 4 hr 30000 ppm*

Acute Dermal Toxicity

Titanium Dioxide *LD50 Rabbit: >15200 mg/kg*

Acetone *LD50 Rabbit: 20000 mg/kg*

Respiratory/Skin Sensitization

Calcium Carbonate *Not classified*

Titanium Dioxide *No information available*

Mutagenicity Assessment

Calcium Carbonate *Not mutagenic according to known data*

Titanium Dioxide *Not mutagenic according to test data for normal pigment particles, some adverse mutagenic data obtained with titanium dioxide nano particles.*

Carcinogenicity

Crystalline Silica *IARC 1, NTP - Known to be a human carcinogen.*

Titanium Dioxide *IARC 2B - Possible Human Carcinogen.*
 • *Although IARC has classified titanium dioxide as possibly carcinogenic to humans (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium dioxide is bound to other materials, such as paint."*

Solvent naphtha, petroleum, light aliph.* *GHS Category 2 Carcinogen classification is based on an assumption that the component contains a regulated carcinogen above Cut-Off value, which is not applicable in this product.*

Reprotoxicity/Teratogenicity *No data*
CMR Assessment *No data*

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Titanium dioxide: LC50: >1000 mg/L (96 hr; Fathead Minnow)

Acetone: LC50: 6210mg/L (96 hr; Pimephales promelas; NOMINAL CONCENTRATION)

Acetone: LC50: 5540mg/L (96 hr; Salmo gairdneri (Oncorhynchus mykiss))

12.2. Persistence and degradability

Acetone: Readily biodegradable in water. Biodegradable in the soil. Biodegradable in the soil under anaerobic conditions.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available

12.5. Other adverse effects

No information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of in accordance with local/state, and national regulations. In the US, disposal of excess or unusable liquid product should be managed as a RCRA hazardous waste.

SECTION 14: TRANSPORTATION INFORMATION

US DOT Hazard Classification: *UN1263, PAINT, Hazard Class 3, PGII, ERG 128*

Canadian TDG Classification: *UN1263, PAINT, Hazard Class 3, PGII, ERG 128*

Air transport ICAO/IATA: *UN1263, PAINT, Class 3, PGII*

Shipment by sea IMDG/GGVSee: *UN1263, PAINT, IMDG 3, PGII*

SECTION 15: REGULATORY INFORMATION

15.1. US Regulations

CERCLA (EPA) *See Section 6 above.*

SARA TITLE III (EPA)

Product contains the following chemicals listed as Toxic Chemicals subject to the reporting requirements of SARA Title III §313 and 40 CFR Part 372.

None

SARA Title III §§311/312 and 40 CFR 370 Tier II & MSDS reporting is required for the uncured product as a whole above the 10,000 lb “on-site at any time” threshold as

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Not subject to SARA Title III §302(c) and 40 CFR 355 Threshold Planning Quantity (TPQ) requirements.

TSCA (EPA)

Product complies with US TSCA inventory requirements.

Clean Air Act (EPA):

Product contains the following chemicals listed as a Hazardous Air Pollutant (HAP) under Section 112 :

None

Product contains the following chemicals listed as Risk Management (RMP) chemicals under Section 112r:

None

15.2. International regulations

Canada

Canadian DSL (Domestic Substances List) Inventory – All chemical ingredients of this product are listed or exempted.

EU-Regulations

Classification according to Regulation (EC) No. 1272/2008 [CLP] - Amending & repealing EC No 1272/2008 Directives 67/548/EEC & 1999/45/EC, and amending (EC) No 1907/2006:

Index No	Chemical Identification	EC No	CAS No
606-001-00-8	Acetone	200-662-2	67-64-1
649-327-00-6	Solvent naphtha, petroleum, light aliph.	265-192-2	64742-48-8

15.3. US State regulations

CALIFORNIA PROP 65 *Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.*

- Titanium Dioxide*
- Crystalline Silica (as respirable dust)*
- Ethyl Benzene*

MASSACHUSETTS TURA Act *Product contains the following chemicals regulated under the Toxics Use Reduction Act (TURA) and 310 CMR 50:*

- Acetone*

State Right to Know Lists	CA	FL	NJ	PA	MN	MA	RI
Calcium Carbonate	No	Yes	Yes	Yes	Yes	Yes	Yes
Titanium Dioxide	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Acetone	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Solvent naphtha, petroleum, light aliph. *	No	No	No	No	No	No	No
Crystalline Silica	Yes	Yes	Yes	Yes	Yes	Yes	Yes

SECTION 16: OTHER INFORMATION

	Health	Flammability	Physical Hazard
HMIS rating	2*	3	0
NFPA rating	2	3	0

HMIS Hazard Ratings

4 = severe

3 = serious

2 = moderate

1 = slight

0 = minimal

N = no rating for powders

* = chronic health hazard

NFPA Hazard Ratings

4 = extreme

3 = high

2 = moderate

1 = slight

0 = insignificant

N = no rating for powders

Acronyms Legend

ACGIH	American Conference of Governmental Industrial Hygienists
ATSDR	Agency for Toxic Substances and Disease Registry
c.c.	closed cup
Carc	Carcinogen
CAS	Chemical Abstract Services
CERCLA	Comprehensive Environmental Response – Compensation and Liability Act
CFR	Code of Federal Regulations
CMR	Carcinogenic-Mutagenic-Toxic for Reproduction
DOT	Department of Transportation
EC50	half maximal effective concentration
EPA	Environmental Protection Agency
ERG	Emergency Response Guide Book
Flam. Liq.	Flammable Liquid
GHS	Globally Harmonized System of Classification and Labeling of Chemicals (GHS)
HAP	Hazardous Air Pollutant
HCS	Hazard Communication Standard
HMS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
ICAO-TI	International Civil Aviation Organization- Technical Instructions
ID	Identification number
IMDG	International Maritime Dangerous Goods
LC50	50 % Lethal Concentration
LD50	50 % Lethal Dose
mmHg	millimeters of Mercury
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
o. c.	open cup
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PBT	Persistent, Bioaccumulative, Toxic
RQ	Reportable Quantity
SARA	Superfund Amendments Reauthorization Act
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
TPQ	Threshold Planning Quantity
UN	United Nations
VOC	Volatile Organic Compounds
WHMIS	Workplace Hazardous Materials Information System

SDS Status: *The information contained herein relates only to the specific material identified. Franklin Paint Company believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Franklin Paint Company urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.*