Safety Data Sheet CURUST, MM

Supercedes Date Not applicable **Issuing Date** 08/09/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CURUST, MM
Recommended use Solvent-borne coatings
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 5617
Chemical nature Solvent blend
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Clear - Brown **Physical state** Liquid **Odor** Solvent

GHS
Classification

Physical Hazards

Flammable Aerosols	Category 1
Gases under pressure	Liquefied gas

Health Hazard

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Specific target organ systemic toxicity (single exposure)	Category 3

Other hazards
None

Labeling
Signal Word
DANGER

Hazard statements
H222 - Extremely flammable aerosol
H336 - May cause drowsiness or dizziness
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H280 - Contains gas under pressure; may explode if heated

Precautionary Statements
P210 - Keep away from heat, sparks, open flames or hot surfaces.
P211 - Do not spray on an open flame or other ignition source
P251 - Pressurized container: Do not pierce or burn, even after use
P270 - Do not eat, drink or smoke when using this product.
P261 - Avoid breathing vapors, mist or gas
P271 - Use in a well-ventilated area.
P280 - Wear protective gloves, protective clothing and eye protection.
P264 - Wash face, hands and any exposed skin thoroughly after handling
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P312 - Call a physician if unwell.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P332 + P313 - If skin irritation occurs, get medical attention.
P362 - Take off contaminated clothing and wash before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists, get medical attention.
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P403 - Store in a well-ventilated place
P501 - Dispose of contents and container in accordance with applicable local regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	Weight %
Acetone	67-64-1	30-60
Petroleum gases, liquified, sweetened	68476-86-8	15-40
Isopropyl alcohol	67-63-0	5-10
2-Butoxyethanol	111-76-2	5-10
Diethylene glycol	111-46-6	3-7
Tannic acid	1401-55-4	1-5

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

General advice Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist, or gas.

Eye Contact Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use.

Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.

Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention if symptoms occur.

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point 65 °F / 18 °C **Method** SetaFlash

Flammability Limits in Air %: Mixture. **Upper:** 12.8 **Lower:** 1.6

Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Water fog. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

Water spray, sharp water jet.

Specific hazards arising from the chemical

Extremely flammable. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Flame extension: 18.1 inches / 46 cm and Burnback: 1.6 inch / 4 cm.

Protective Equipment and Precautions for Firefighters

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

Aerosol Level (NFPA 30B) - 3

NFPA	**Health** 2	**Flammability** 4	**Instability** 1
HMIS	**Health** 2	**Flammability** 4	**Instability** 1

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Ensure adequate ventilation. Take precautionary measures against static discharges. Remove all sources of ignition. Material can create slippery conditions.

Environmental Precautions Do not flush into surface water or sanitary sewer system.

Methods for Containment Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

Methods for Cleaning Up Use clean non-sparking tools to collect absorbed material. Pick up and transfer to properly labeled containers.

Neutralizing Agent Not applicable.

7. HANDLING AND STORAGE

Handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors, mist or gas. Keep away from open flames, hot surfaces and sources of ignition.

Storage Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition.

Storage Temperature **Minimum** 36 °F / 2 °C **Maximum** 122 °F / 50 °C

Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Acetone	TWA: 500 ppm	TWA: 1000 ppm	2500 ppm

	STEL: 750 ppm	TWA: 2400 mg/m^3	TWA: 250 ppm TWA: 590 mg/m^3
Isopropyl alcohol	TWA: 200 ppm STEL: 400 ppm	TWA: 400 ppm TWA: 980 mg/m^3	2000 ppm STEL 500 ppm STEL 1225 mg/m^3 TWA: 400 ppm TWA: 980 mg/m^3
2-Butoxyethanol	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m^3 Skin	700 ppm TWA: 5 ppm TWA: 24 mg/m^3

Engineering Measures Ensure adequate ventilation, especially in confined areas. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

Eye/Face Protection Tightly fitting safety goggles.

Skin Protection Wear suitable protective clothing, Impervious gloves.

Respiratory Protection In case of inadequate ventilation wear respiratory protection. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

General Hygiene Considerations Ensure that eyewash stations and safety showers are close to the workstation location. Wear protective gloves/clothing. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid	**Viscosity**	Non viscous
Color	Clear - Brown	**Odor**	Solvent
Odor Threshold	Not applicable	**Appearance**	Transparent - Cloudy
pH	1.9	**Specific Gravity**	0.850
Evaporation Rate	>1 (Butyl acetate=1)	**Percent Volatile (Volume)**	90
VOC Content (%)	44	**VOC Content (g/L)**	374
Vapor Pressure	77 mmHg @ 77°F	**Vapor Density**	>1 (Air = 1.0)
Solubility	Insoluble	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	> 150 °F / 66 °C	**Flammability (solid, gas)**	No data available
Flash Point	65 °F / 18 °C	**Method**	SetaFlash
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Mixture	**Upper:** 12.8 **Lower:** 1.6	

10. STABILITY AND REACTIVITY

Chemical Stability Stable. Hazardous polymerization does not occur.

Conditions to Avoid Keep away from open flames, hot surfaces, and sources of ignition.

Incompatible Products Strong oxidizing agents, Acids, Alkalis, chlorine compounds, Rubber, plastics, coatings.

Decomposition Temperature No data available

Hazardous Decomposition Products Carbon oxides.

Possibility of Hazardous Reactions None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 No information available

Dermal LD50 No information available

Inhalation LC50

Gas No information available

Mist No information available

Vapor No information available

Principle Route of Exposure Skin contact, Eye contact, Inhalation.

Primary Routes of Entry Skin contact, Ingestion, Inhalation, Eye contact.

Acute Effects:

Eyes Causes serious eye irritation.

Skin Causes skin irritation.

Inhalation Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chronic Toxicity None known.

Target Organ Effects Central nervous system, Respiratory system, Skin, Eyes, Blood, Kidney, Liver, Hematopoietic System.

Aggravated Medical Conditions Neurological disorders, Respiratory system, Liver disorders, Kidney disorders, Skin disorders, Blood disorders.

Component Information

Acute Toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Acetone 67-64-1	No data available	no data available	= 50100 mg/m^3 (Rat) 8 h	No data available	No data available
Isopropyl alcohol 67-63-0	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m^3 (Rat) 4 h	No data available	No data available
2-Butoxyethanol 111-76-2	= 470 mg/kg (Rat)	= 99 mg/kg (Rabbit)	= 450 ppm (Rat) 4 h	No data available	No data available
Diethylene glycol 111-46-6	= 12565 mg/kg (Rat)	= 11890 mg/kg (Rabbit)	No data available	No data available	No data available
Tannic acid 1401-55-4	= 2260 mg/kg (Rat)	no data available	No data available	No data available	No data available

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Acetone 67-64-1	No data available	No data available	No data available	No data available	Skin Central nervous system Eyes Respiratory system
Isopropyl alcohol 67-63-0	No data available	No data available	No data available	No data available	Skin Eyes Respiratory system
2-Butoxyethanol 111-76-2	No data available	No data available	No data available	No data available	Blood Hematopoietic System Skin Central nervous system Eyes Respiratory system Liver Kidney

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA	Other
2-Butoxyethanol 111-76-2	A3	Group 3	not applicable	not applicable	not applicable
Tannic acid 1401-55-4	not applicable	Group 3	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficien
Acetone	No information available.	LC50 4.74 - 6.33 mL/L Oncorhynchus mykiss 96 h LC50 6210 - 8120 mg/L Pimephales promelas 96 h LC50 = 8300 mg/L Lepomis macrochirus 96 h	EC50 = 14500 mg/L 15 min	10294 - 17704: 48 h Daphnia magna mg/L EC50 Static 12600 - 12700: 48 h Daphnia magna mg/L EC50	-0.24
Petroleum gases, liquified, sweetened	No information available.	No information available.	No information available	No information available.	2.8
Isopropyl alcohol	EC50 > 1000 mg/L Desmodesmus subspicatus 96 h EC50 > 1000 mg/L Desmodesmus subspicatus 72 h	LC50 = 9640 mg/L Pimephales promelas 96 h LC50 = 11130 mg/L Pimephales promelas 96 h LC50 > 1400000 µg/L Lepomis macrochirus 96 h	EC50 = 35390 mg/L 5 min	13299: 48 h Daphnia magna mg/L EC50	0.05
2-Butoxyethanol	No information available.	LC50 = 1490 mg/L Lepomis macrochirus 96 h LC50 = 2950 mg/L Lepomis macrochirus 96 h	No information available	1000: 48 h Daphnia magna mg/L EC50	0.81
Diethylene glycol	No information available.	LC50 = 75200 mg/L Pimephales promelas 96 h	EC50 = 29228 mg/L 15 min	84000: 48 h Daphnia magna mg/L EC50	-1.98

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility This product is mobile in soil.

13. DISPOSAL CONSIDERATIONS

Product Disposal Dispose of in accordance with local regulations.
Container Disposal Contents under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	CONSUMER COMMODITY ORM-D
Subsidiary Hazard Class	ORM-D
Description	CONSUMER COMMODITY ORM-D

TDG

Proper shipping name	AEROSOLS, FLAMMABLE
Hazard Class	2.1
UN-No	UN1950
Description	UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

ICAO

UN-No	UN1950
Proper Shipping Name	AEROSOLS, FLAMMABLE
Hazard Class	2.1
Shipping Description	UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

IATA

UN-No	UN1950
Proper Shipping Name	AEROSOLS, FLAMMABLE
Hazard Class	2.1
Shipping Description	UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

IMDG/IMO

Proper Shipping Name	AEROSOLS, FLAMMABLE
Hazard Class	2.1
UN-No	UN1950
Description	UN1950, AEROSOLS, FLAMMABLE, 2.1, LIMITED QUANTITY

15. REGULATORY INFORMATION

Inventories

TSCA	Complies
DSL	Complies

U.S. Federal Regulations

SARA 313

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:

Component	CAS No.	Weight %	SARA 313 - Threshold Values
2-Butoxyethanol	111-76-2	5-10	1.0

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Acetone	5000 lb	Not applicable

16. OTHER INFORMATION

Prepared By	Samantha Purvis
Supercedes Date	Not applicable
Issuing Date	08/09/2016
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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