Safety Data Sheet: RUSTORE AEROSOL, MM

Supercedes Date 07/02/2012 **Issuing Date** 12/10/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name RUSTORE AEROSOL, MM
Recommended use Treatment and coating of metals
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 5627
Chemical nature mixture
Emergency Telephone Number
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color green **Physical State** Liquid **Odor** Petroleum distillates

GHS Classification

Physical Hazards

Flammable aerosols	Category 1
Gases under pressure	Compressed Gas

Health Hazard

Aspiration Toxicity	Category 1
Acute Oral Toxicity	Category 4
Acute Dermal Toxicity	Category 4
Acute Inhalation Toxicity - Gas	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 1
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Respiratory Sensitization	Category 1
Skin Sensitization	Category 1
Germ Cell Mutagenicity	Category 1B
Carcinogenicity	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3
Specific target organ systemic toxicity (repeated exposure)	Category 2

Other hazards
None

Labeling
Signal Word
DANGER

Hazard Statements
H222 - Extremely flammable aerosol
H331 - Toxic if inhaled
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled H312 - Harmful in contact with skin H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways H340 - May cause genetic defects
H351 - Suspected of causing cancer
H373 - May cause damage to organs through prolonged or repeated exposure
H280 - Contains gas under pressure; may explode if heated

Precautionary Statements
P202 - Do not handle until all safety precautions have been read and understood
P251 - Pressurized container: Do not pierce or burn, even after use
P210 - Keep away from heat, sparks, open flames or hot surfaces.
P233 - Keep container tightly closed
P280 - Wear protective gloves, protective clothing and eye protection.
P270 - Do not eat, drink or smoke when using this product
P260 - Do not breathe vapors or mist
P271 - Use in a well-ventilated area.
P285 - In case of inadequate ventilation wear respiratory 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.
P342 + P311 - If experiencing respiratory symptoms, call a physician
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
P333 + P313 - If skin irritation or rash 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.

P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F
P403 + P235 - Store in a well-ventilated place. Keep cool
P501 - Dispose of contents and container in accordance with applicable regulations.

8 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Methylene chloride	75-09-2	15-40
Propane	74-98-6	10-30
Microcrystalline wax	63231-60-7	5-10
Petroleum naphtha, light aromatic	64742-95-6	5-10
Petroleum distillates, hydrotreated light	64742-47-8	5-10
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	5-10
Petroleum distillate	8052-41-3	5-10
Butane	106-97-8	5-10
Pseudocumene	95-63-6	1-5
1,3,5-Trimethylbenzene	108-67-8	1-5
1,2,3-Trimethylbenzene	526-73-8	1-5
Nonane	111-84-2	1-5
Ethylene diamine	107-15-3	0.1-1
Cumene	98-82-8	0.1-1

4. FIRST AID MEASURES

General advice Avoid breathing vapors, mist, or gas. Avoid contact with skin, eyes and clothing.
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 Move to fresh air. In case of shortness of breath, give oxygen. If breathing has stopped, apply artificial respiration. Get medical attention immediately.
Ingestion Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person.
Notes to physician Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways. May cause cardiac arrhythmia. Adrenaline derivatives are contra-indicated. May cause sensitization of susceptible persons.

5. FIRE-FIGHTING MEASURES

Flash Point 101 °F / 38 °C **Method** Seta closed cup
Flammability Limits in Air % Mixture. **Upper** 23 **Lower** 1.9
Suitable Extinguishing Media
Carbon dioxide (CO2). Dry chemical. Foam. Water spray.
Specific hazards arising from the chemical
Extremely flammable. Flame extension: >36 inches / 91 cm and Burnback: 6 inch / 15 cm. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions.
Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Aerosol Level (NFPA 30B) - 2

NFPA	**Health** 2	**Flammability** 4	**Instability** 0
HMIS	**Health** 2	**Flammability** 4	**Instability** 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation. Prevent further leakage or spillage if safe to do so. 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 Keep away from open flames, hot surfaces and sources of ignition. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing.

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

Storage Temperature **Minimum** 20 °F / -7 °C **Maximum** 120 °F / 49 °C

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Methylene chloride	TWA: 50 ppm	TWA: 25 ppm STEL: 125 ppm	IDLH: 2300 ppm
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m^3	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m^3
Microcrystalline wax	No data available	No data available	No data available
Petroleum naphtha, light aromatic	No data available	No data available	No data available
Petroleum distillates, hydrotreated light	5 mg/m^3 as oil mist	10 mg/m^3 as oil mist	No data available
Solvent naphtha (petroleum), medium aliphatic	No data available	No data available	No data available
Petroleum distillate	TWA: 100 ppm	TWA: 500 ppm TWA: 2900 mg/m^3	IDLH: 20000 mg/m^3 Ceiling: 1800 mg/m^3 TWA: 350 mg/m^3
Butane	STEL: 1000 ppm	No data available	TWA: 800 ppm TWA: 1900 mg/m^3
Pseudocumene	No data available	No data available	TWA: 25 ppm TWA: 125 mg/m^3
1,3,5-Trimethylbenzene	No data available	No data available	TWA: 25 ppm TWA: 125 mg/m^3
1,2,3-Trimethylbenzene	No data available	No data available	TWA: 25 ppm TWA: 125 mg/m^3
Nonane	TWA: 200 ppm	No data available	TWA: 200 ppm TWA: 1050 mg/m^3
Ethylene diamine	TWA: 10 ppm Skin	TWA: 10 ppm TWA: 25 mg/m^3	IDLH: 1000 ppm TWA: 10 ppm TWA: 25 mg/m^3
Cumene	TWA: 50 ppm	TWA: 50 ppm TWA: 245 mg/m^3 Skin	IDLH: 900 ppm TWA: 50 ppm TWA: 245 mg/m^3

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/Face Protection Safety glasses with side-shields.

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 Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Viscosity**	Non viscous
Color	green	**Odor**	Petroleum distillates
Odor Threshold	Not applicable	**Appearance**	Hazy
pH	Not applicable	**Specific Gravity**	0.79
Evaporation Rate	54.4 (Butyl acetate=1)	**Percent Volatile (Volume)**	80.8
VOC Content (%)	57	**VOC Content (g/L)**	451
Vapor Pressure	2548.4 mmHg @ 70°F	**Vapor Density**	1.7 (Air = 1.0)
Solubility	Negligible	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	104 °F / 40 °C	**Flammability (solid, gas)**	No data available
Flash Point	101 °F / 38 °C	**Method**	Seta closed cup

Autoignition Temperature No information available.
Flammability Limits in Air % Mixture. **Upper** 23 **Lower** 1.9

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, Bases, Amines.
Hazardous Decomposition Products Carbon oxides, Hydrogen chloride gas, Phosgene.
Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):
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 Inhalation, Skin Absorption.
Acute Effects
Eyes Causes eye irritation.
Skin Causes skin irritation. May cause sensitization by skin contact. May be absorbed through the skin in harmful amounts. Blood disorder may occur after prolonged skin contact.
Inhalation Causes respiratory tract irritation. Inhalation may cause central nervous system effects. May cause central nervous system depression. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. May cause sensitization by inhalation. May cause cardiac arrhythmia. Blood disorder may occur after prolonged inhalation.
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.
Chronic Toxicity Prolonged or repeated inhalation may cause damage to the lungs. Causes adverse cardiovascular effects. Repeated and prolonged exposure to solvents may cause brain and nervous system damage. May cause damage to the kidneys/liver/eyes/brain/digestive system/central nervous system if swallowed. Contains a known or suspected carcinogen.
Target Organ Effects Respiratory system, Liver, Kidney, Central nervous system, Cardiovascular system, Heart, Blood, Lungs, Ears.
Aggravated Medical Conditions Respiratory disorders, Liver disorders, Kidney disorders, Neurological disorders, Heart disease, Blood disorders, Skin disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Methylene chloride	> 2000 mg/kg (Rat)	no data available	no data available	no data available	no data available
Propane	no data available	no data available	= 658 mg/L (Rat) 4 h	no data available	no data available
Microcrystalline wax	= 10000 mg/kg (Rat)	> 3600 mg/kg (Rabbit)	no data available	no data available	no data available
Petroleum naphtha, light aromatic	no data available	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h = 3400 ppm (Rat) 4 h	no data available	no data available
Petroleum distillates, hydrotreated light	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h	no data available	no data available
Solvent naphtha (petroleum), medium aliphatic	> 5000 mg/kg (Rat)	= 3000 mg/kg (Rabbit)	> 5.28 mg/L (Rat) 4 h	no data available	no data available
Petroleum distillate	no data available	no data available	no data available	no data available	no data available
Butane	no data available	no data available	= 658 g/m^3 (Rat) 4 h	no data available	no data available
Pseudocumene	= 3400 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m^3 (Rat) 4 h	no data available	no data available
1,3,5-Trimethylbenzene	no data available	no data available	= 24 g/m^3 (Rat) 4 h	no data available	no data available
1,2,3-Trimethylbenzene	no data available	no data available	no data available	no data available	no data available
Nonane	no data available	no data available	= 3200 ppm (Rat) 4 h	no data available	no data available
Ethylene diamine	= 637 mg/kg (Rat)	= 550 mg/kg (Rabbit)	no data available	no data available	no data available
Cumene	= 1400 mg/kg (Rat)	= 12300 µL/kg (Rabbit)	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Methylene chloride	no data available	no data available	no data available	no data available	skin, CVS, eyes, CNS (in animals: lung, liver, salivary and mammary

					gland tumors)
Propane	no data available	no data available	no data available	no data available	CNS, heart
Microcrystalline wax	no data available	no data available	no data available	no data available	no data available
Petroleum naphtha, light aromatic	no data available	no data available	no data available	no data available	CNS
Petroleum distillates, hydrotreated light	no data available	no data available	no data available	no data available	respiratory system, liver, kidney, CNS
Solvent naphtha (petroleum), medium aliphatic	no data available	no data available	no data available	no data available	CNS, liver, kidneys
Petroleum distillate	no data available	no data available	no data available	no data available	eyes,CNS,respiratory system,skin,kidneys
Butane	no data available	no data available	no data available	no data available	CNS, heart
Pseudocumene	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin, blood, ears, heart
1,3,5-Trimethylbenzene	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin, blood, ears, heart
1,2,3-Trimethylbenzene	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin, blood
Nonane	no data available	no data available	no data available	no data available	eyes,CNS,respiratory system,skin
Ethylene diamine	no data available	Skin sensitization, respiratory sensitization	no data available	no data available	respiratory system,liver,kidneys,skin
Cumene	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin

Carcinogenicity

Component	ACGIH	IARC	NTP	OSHA	Other
Methylene chloride	A3	Group 2B	Reasonably Anticipated	X	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
Microcrystalline wax	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum naphtha, light aromatic	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillates, hydrotreated light	not applicable	not applicable	not applicable	not applicable	not applicable
Solvent naphtha (petroleum), medium aliphatic	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillate	not applicable	not applicable	not applicable	not applicable	not applicable
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Pseudocumene	not applicable	not applicable	not applicable	not applicable	not applicable
1,3,5-Trimethylbenzene	not applicable	not applicable	not applicable	not applicable	not applicable
1,2,3-Trimethylbenzene	not applicable	not applicable	not applicable	not applicable	not applicable
Nonane	not applicable	not applicable	not applicable	not applicable	not applicable
Ethylene diamine	not applicable	not applicable	not applicable	not applicable	not applicable
Cumene	not applicable	Group 2B	not applicable	X	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Methylene chloride	EC50 > 500 mg/L Pseudokirchneriella subcapitata 96 h EC50 > 500 mg/L Pseudokirchneriella subcapitata 72 h	LC50 140.8 - 277.8 mg/L Pimephales promelas 96 h LC50 262 - 855 mg/L Pimephales promelas 96 h LC50 = 193 mg/L Lepomis macrochirus 96 h	EC50 = 1 mg/L 24 h EC50 = 2.88 mg/L 15 min	EC50 1532 - 1847 mg/L 48 h EC50= 190 mg/L 48 h	1.25
Propane	no data available	no data available	no data available	no data available	2.3
Microcrystalline wax	no data available	no data available	no data available	no data available	>6
Petroleum naphtha, light aromatic	no data available	LC50 = 9.22 mg/L Oncorhynchus mykiss 96 h	no data available	EC50= 6.14 mg/L 48 h	N/A
Petroleum distillates, hydrotreated light	no data available	LC50 = 45 mg/L Pimephales promelas 96 h LC50 = 2.2 mg/L Lepomis macrochirus 96 h LC50 = 2.4 mg/L Oncorhynchus mykiss 96 h	no data available	LC50= 4720 mg/L 96 h	N/A
Solvent naphtha (petroleum), medium aliphatic	EC50 = 450 mg/L Pseudokirchneriella subcapitata 96 h	LC50 = 800 mg/L Pimephales promelas 96 h	no data available	EC50> 100 mg/L 48 h	N/A

Petroleum distillate	no data available	no data available	no data available	no data available	N/A
Butane	no data available	no data available	no data available	no data available	2.89
Pseudocumene	no data available	LC50 7.19 - 8.28 mg/L Pimephales promelas 96 h	no data available	EC50= 6.14 mg/L 48 h	3.63
1,3,5-Trimethylbenzene	no data available	LC50 = 3.48 mg/L Pimephales promelas 96 h	no data available	EC50= 50 mg/L 24 h	N/A
1,2,3-Trimethylbenzene	no data available	no data available	no data available	no data available	N/A
Nonane	no data available	no data available	no data available	no data available	N/A
Ethylene diamine	EC50 = 645 mg/L Pseudokirchneriella subcapitata 72 h EC50 = 151 mg/L Pseudokirchneriella subcapitata 96 h	LC50 98.6 - 131.6 mg/L Pimephales promelas 96 h LC50 191 - 254 mg/L Pimephales promelas 96 h LC50 = 115.7 mg/L Pimephales promelas 96 h LC50 180 - 560 mg/L Poecilia reticulata 96 h	EC50 = 20 mg/L 15 min EC50 = 29 mg/L 17 h	EC50= 17 mg/L 48 h	-1.221
Cumene	EC50 = 2.6 mg/L Pseudokirchneriella subcapitata 72 h	LC50 6.04 - 6.61 mg/L Pimephales promelas 96 h LC50 = 4.8 mg/L Oncorhynchus mykiss 96 h LC50 = 2.7 mg/L Oncorhynchus mykiss 96 h LC50 = 5.1 mg/L Poecilia reticulata 96 h	EC50 = 0.89 mg/L 5 min EC50 = 1.10 mg/L 15 min EC50 = 1.48 mg/L 30 min EC50 = 172 mg/L 24 h	EC50= 0.6 mg/L 48 h EC50 7.9 - 14.1 mg/L 48 h	3.55

Persistence and Degradability No information available.
Bioaccumulation No information available.
Mobility No information available.

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 DOT
Proper Shipping Name Consumer Commodity
Hazard Class ORM-D
Description Consumer Commodity ORM-D

TDG TDG
Hazard Class 2.1
UN-No UN1950

ICAO ICAO
UN-No UN1950
Proper Shipping Name Aerosols
Hazard Class 2.1
Shipping Description Aerosols,UN1950

IATA IATA
UN-No UN1950
Proper Shipping Name Aerosols, flammable
Hazard Class 2.1
ERG Code 10L
Shipping Description UN1950,Aerosols, flammable ,2.1

IMDG/IMO IMDG/IMO
Proper Shipping Name Aerosols
Hazard Class 2
UN-No UN1950
EmS No. F-D, S-U
Shipping Description UN1950, Aerosols,2

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
Methylene chloride	75-09-2	15-40	0.1
Pseudocumene	95-63-6	1-5	1.0
Cumene	98-82-8	0.1-1	1.0

SARA 311/312 Hazardous Categorization

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

CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methylene chloride	1000 lb	Not applicable
Propane	Not applicable	Not applicable
Microcrystalline wax	Not applicable	Not applicable
Petroleum naphtha, light aromatic	Not applicable	Not applicable
Petroleum distillates, hydrotreated light	Not applicable	Not applicable
Solvent naphtha (petroleum), medium aliphatic	Not applicable	Not applicable
Petroleum distillate	Not applicable	Not applicable
Butane	Not applicable	Not applicable
Pseudocumene	Not applicable	Not applicable
1,3,5-Trimethylbenzene	Not applicable	Not applicable
1,2,3-Trimethylbenzene	Not applicable	Not applicable
Nonane	Not applicable	Not applicable
Ethylene diamine	5000 lb	10000 lb TPQ 5000 lb
Cumene	5000 lb	Not applicable

16. OTHER INFORMATION

Prepared By Sarah Williamson
Supercedes Date 07/02/2012
Issuing Date 12/10/2013
Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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