Safety Data Sheet

Revision Date 01-04-2016
Revision Number 9

DAUBERT CHEMICAL COMPANY, INC.

SECTION 1 Identification of the substance/mixture and of the company/undertaking

Product identification used on label	
Product identifier	4082 MOTORSTOR® (Aerosol)
Details of the supplier of the safety data sheet	Daubert Chemical Company 4700 S. Central Avenue Chicago, IL 60638 708-496-7350
Emergency telephone number	Chemtrec: (800) 424-9300
Relevant identified uses of the substance or mixture and uses advised against	Corrosion Preventive Spray

SECTION 2 Hazards identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Hazard Symbols

GHS Classification	Flammable Gas Category 1 Gases under pressure - Liquified Gas Skin Corrosion/Irritation Category 2 Serious Eye Damage/Eye Irritation Category 2B Hazardous to the aquatic environment - Acute Category 2 Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3
Signal Word	Danger
Hazard Statements	Extremely flammable gas. Contains gas under pressure; may explode if heated. Causes skin and eye irritation May cause respiratory irritation. May cause drowsiness or dizziness. Toxic to aquatic life.
Precautionary Statements	
Prevention	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

	Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician if you feel unwell. Specific treatment: None known If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store in a well-ventilated place.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

SECTION 3 Composition/information on ingredients

Chemical Name	CAS #	%
Naphtha, petroleum, hydrotreated light	64742-49-0	30 - 50
Hydrotreated (mild) heavy naphthenic	64742-52-5	15 - 30
Propane	74-98-6	10 - 30
Butane	106-97-8	7 - 13
Tolyltriazole	29385-43-1	1 - 5

Note: Specific chemical identities and/or exact percentages have been withheld as a trade secret.

SECTION 4 First aid measures

Inhalation	If symptoms are experienced remove source of contamination or move victim to fresh air and obtain medical advice.
Eyes	Immediately flush eyes with plenty of water for at least 20 minutes retracting eyelids often. Tilt the head to prevent chemical from transferring to the uncontaminated eye. Get immediate medical attention and monitor the eye daily as advised by your physician.
Skin Contact	Wash with soap and water. Remove contaminated clothing and launder. Get medical attention if irritation develops or persists.
Ingestion	Do not induce vomiting and seek medical attention immediately. Provide medical care provider with this SDS. Induce vomiting as a last measure. Induced vomiting may lead to aspiration of the material into the lungs potentially causing chemical pneumonitis that may be fatal.
Note to Doctor	Treat symptomatically.

SECTION 5 Firefighting measures

Extinguishing media	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water spray or fog may also be effective for extinguishing if swept across the base of the fire. Water can also be used to absorb heat and keep exposed material from being damaged by fire.
Fire and/or Explosion Hazards	Vapors may be ignited by heat, sparks, flames or other sources of ignition at or above the low flash point giving rise to a Class B fire. Vapors are heavier than air and may travel to a source of ignition and flash back. Flammable Gas. Can readily form explosive air/gas mixture at room temperature or at lower temperatures that are above the flash point. Container may explode in heat of fire. Empty containers that retain product residue (liquid, solid/sludge, or vapor) can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury or death.
Fire Fighting Methods and Protection	Do not enter fire area without proper protection including self-contained toxic breathing apparatus and full protective equipment. Fight fire from a safe distance and a protected location due to the potential of hazardous vapors and decomposition products. Flammable component(s) of this material may be lighter than water and burn while floating on the surface. Use water spray/fog for cooling.
Hazardous Combustion Products	Oxides of carbon

SECTION 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section VIII of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation.
Methods and materials for containment and cleaning up	Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section VIII at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

SECTION 7 Handling and storage

Precautions for safe handling	Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Use spark-proof tools and explosion-proof equipment. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Wash thoroughly after handling. Do not get in eyes, on skin and clothing. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous.
Conditions for safe storage, including any incompatibilities	Store in a cool dry ventilated location. Isolate from incompatible materials and conditions. Keep container(s) closed.Keep away from sources of ignition. Store in a cool place in original container and protect from sunlight. Limit quantity of material stored.
Incompatible materials	Strong oxidizing agents, Acids, Strong alkalies

SECTION 8 Exposure controls/personal protection

Control parameters

Chemical Name	ACGIH TLV	ACGIH STEL	OSHA PEL
Naphtha, petroleum, hydrotreated light	5 mg/m3		5 mg/m3
Hydrotreated (mild) heavy naphthenic	5 mg/m3		5 mg/m3
Propane	1000 ppm		1000 ppm TWA; 1800 mg/m3 TWA
Butane	1,000 ppm		800 ppm TWA; 1900 mg/m3 TWA

Engineering Measures	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. Explosion proof exhaust ventilation should be used. Engineering controls must be designed to control vapor concentrations to below levels published in 29 CFR 1910.1000. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910.
Respiratory Protection	Proper ventilation (at a minimum) will be required when handling this product. Use respirators (NIOSH approved) only if ventilation cannot be used to eliminate symptoms or reduce the exposure to below acceptable levels. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator.
Eye Protection	Wear chemically resistant safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Do not wear contact lenses. Have an eye wash station available.
Skin Protection	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves	Chemically resistant gloves

SECTION 9 Physical and chemical properties (Typical, not specification)

Physical State	Spray Aerosol
Color	Amber
Odor	Solvent Odor
Odor Threshold	No data available
pH	No data available
Melting Point, °C	No data available
Boiling Point, °C	No data available
Flash Point	-155 °F(-104 °C)
Evaporation Rate	>1 (n-Butyl Acetate=1)
Flammability (Solid, Gas)	No data available
Lower Flammable/Explosive Limit, % in air	No data available
Upper Flammable/Explosive Limit, % in air	No data available
Vapor Pressure	< 1 mmHg
Specific Gravity @ 25°C	1
Solubility in Water	Negligible; 0-1% Not determined
Octanol/Water Partition Coefficient	2.36
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	39.5 cSt @ 40°C
Volatiles, % by weight	No data available

SECTION 10 Stability and reactivity

Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	Elevated temperatures.
Incompatible materials	Strong oxidizing agents, Acids, Strong alkalies
Hazardous decomposition products	Under normal conditions of use & storage, decomposition and hazardous decomposition products are unlikely.

SECTION 11 Toxicological information

Likely Routes of Entry	Skin contact, Inhalation, Eye contact
Target Organs Potentially Affected by Exposure	Central nervous system stimulation, Kidneys, Lungs, Liver, Eyes, Respiratory Tract, Skin, Nervous System
Chemical Interactions That Change Toxicity	No chemical interaction known to affect toxicity.
Medical Conditions Aggravated	Skin contact may aggravate existing skin disease

Immediate (Acute) Health Effects by Route of Exposure

Inhalation Irritation	Can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. This product is an asphyxiant gas that can cause unconsciousness or death if Oxygen levels are sufficiently reduced.
Inhalation Toxicity	Toxic! Can cause systemic damage (see "Target Organs). Respiratory failure is possible at high doses.

Skin Contact	Can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption	No absorption hazard expected in normal industrial use.
Eye Contact	Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in tearing and reddening, but not likely to permanently injure eye tissue. Temporary vision impairment (cloudy or blurred vision) is possible.
Ingestion Irritation	Severely irritating to mouth, throat, and stomach. Can cause abdominal discomfort, nausea, vomiting and diarrhea. Aspiration of material into the lungs can cause chemical pneumonitis which can be fatal.
Ingestion Toxicity	Harmful if swallowed.

Long-Term (Chronic) Health Effects

Carcinogenicity	Not listed by ACGIH, IARC, NIOSH, NTP OR OSHA.
Inhalation	Upon prolonged and/or repeated exposure, can cause severe respiratory irritation, dizziness, weakness, fatigue, nausea, headache and possible unconsciousness. Toxic! Can cause systemic damage upon prolonged and/or repeated exposure (see "Target Organs).
Skin Contact	Upon prolonged or repeated contact, can cause moderate skin irritation, defatting, and dermatitis. Not likely to cause permanent damage.
Skin Absorption	Upon prolonged or repeated exposure, no hazard in normal industrial use.
Ingestion	Under normal industrial usage conditions, ingestion is highly unlikely.

Component Toxicology Data

Chemical Name	CAS Number	LD50/LC50
Naphtha, petroleum, hydrotreated light	64742-49-0	Dermal LD50 Rabbit > 2000 mg/kg Oral LD50 Rat > 5170 mg/kg Inhalation LC50 (4h) Rat > 7.63 mg/L
Hydrotreated (mild) heavy naphthenic	64742-52-5	Dermal LD50 Rabbit > 2000 mg/kg Oral LD50 Rat > 5000 mg/kg
Butane	106-97-8	Inhalation LC50 (4h) Rat 658000 MG/CU M
Tolyltriazole	29385-43-1	Dermal LD50 Rabbit > 5000 mg/kg Oral LD50 Rat = 1260 mg/kg Inhalation LC50 Rat > 1.73 mg/L

SECTION 12 Ecological information

Overview	No ecological information available
Mobility	No data
Persistence	No data
Bioaccumulation	No data
Degradability	No data

Ecotoxicity Data

Chemical Name	CAS Number	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
Naphtha, petroleum, hydrotreated light	64742-49-0	EC50 (48 hr) Water flea 4.5 mg/L	EC50 (96 hr) Green algae 3.7 mg/L	LC50 (96 hr) Rainbow trout 8.2 mg/L
Hydrotreated (mild) heavy naphthenic	64742-52-5	EC50 (48 hr) Water flea > 100 mg/L	EC50 (72 hr) Algae > 100 mg/L	LC50 (96 hr) Fish > 100 mg/L
Tolyltriazole	29385-43-1	EC50 (48 hr) Daphnia = 35.4 mg/L	EC50 (72 hr) Green algae = 62 mg/L	LC50 (96 hr) Rainbow trout = 21.4 mg/L

SECTION 13 Disposal considerations

Waste Description for Spent Product	Spent or discarded material is a hazardous waste.
Disposal Methods	Dispose of by incineration following Federal, State, Local, or Provincial regulations.
Waste Disposal Code(s)	D001

SECTION 14 Transport information

AEROSOL PRODUCT
SHIPPING INSTRUCTIONS

Ground / Domestic:	ORM-D Non-Regulated
Air:	ID 8000, Consumer Commodity, 9
Ocean Export:	UN 1950, Aerosols, 2

SECTION 15 Regulatory information

Status of formula components on selected national regulatory inventories:

LIST	STATUS
TSCA	All components in this product are on the TSCA Inventory or exempt.
Canadian DSL	One or more chemical substances in this material are on the Canadian NDSL and the remainder are included on the Canadian DSL or are exempt.

Chemical Name	CAS #	Regulation	Percent
No CERCLA-listed chemicals in this product.		CERCLA	
No 313-listed chemicals in this product.		SARA 313	
No SARA 302 EHS-listed chemicals in this product.		SARA EHS	

SECTION 16 Other information

Revision Date	01-04-2016
Disclaimer	Although the information contained herein is believed to be reliable, it is furnished without warranty of any kind. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage.
Version Comments	Reviewed Approved: M. Duncan