Safety Data Sheet: AS-201 AEROSOL

Supercedes Date 07/02/2010 **Issuing Date** 11/12/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name AS-201 AEROSOL
Recommended use Lubricant
Information on Manufacturer
Partsmaster, Div of NCH Corp.
P.O. Box 655326
Dallas, TX 75265-5326

Product Code 5406
Chemical nature Petroleum distillates mixture
Emergency Telephone Number
CHEMTREC® 800-424-9300

2. HAZARD IDENTIFICATION

Color Gray **Physical State** Semi-Solid **Odor** Odorless

GHS
Classification

Physical Hazards

Flammable aerosols	Category 1
Gases under pressure	Compressed Gas

Health Hazard

Aspiration Toxicity	Category 1
Acute Inhalation Toxicity - Gas	Category 3
Acute Inhalation Toxicity - Dusts and Mists	Category 3
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2B
Reproductive Toxicity	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
H336 - May cause drowsiness or dizziness
H315 - Causes skin irritation
H320 - Causes eye irritation
H304 - May be fatal if swallowed and enters airways
H361 - Suspected of damaging fertility or the unborn child
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
P280 - Wear protective gloves, protective clothing and eye protection.
P210 - Keep away from heat, sparks, open flames or hot surfaces.
P271 - Use in a well-ventilated area.
P260 - Do not breathe mist or vapor
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.
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P410 + P403 - Protect from sunlight. Store in a well-ventilated place
P235 - Keep cool
P501 - Dispose of contents and container in accordance with applicable regulations.

6 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Calcium carbonate	1317-65-3	10-30
Butane	106-97-8	7-13
Hexane	110-54-3	5-10
Naphtha, petroleum, hydrotreated light	64742-49-0	3-7
Zinc oxide	1314-13-2	3-7
Solvent naphtha (petroleum), light aliphatic	64742-89-8	3-7
Aluminum benzoate fatty acid complex	82980-54-9	3-7
Heptane (n-)	142-82-5	1-5
Propane	74-98-6	1-5
Cyclohexane	110-82-7	1-5
Methylcyclopentane	96-37-7	1-5

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 Wipe up with absorbent material (e.g. cloth, fleece). Wash off immediately with plenty of water for at least 15 minutes. 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 74 °F / 23 °C **Method** Seta closed cup

Flammability Limits in Air % Mixture. **Upper** 9.5 **Lower** 1.1

Suitable Extinguishing Media

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

Specific hazards arising from the chemical

Extremely flammable. Solvent vapors are heavier than air and may spread along floors. Vapors may ignite and explode. Material can create slippery conditions. Flame extension: >30 inches / >76 cm and Burnback: 6 inch / 15.3 cm.

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) - 3

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Remove all sources of ignition. Ensure adequate ventilation. Use personal protective equipment. 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, mist or gas. Avoid contact with skin, eyes and clothing.

Storage Keep away from heat and sources of ignition. Keep in a dry, cool and well-ventilated place.

Storage Temperature **Minimum** 35 °F / 2 °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
Calcium carbonate	No data available	TWA: 15 mg/m^3 TWA: 5 mg/m^3	TWA: 10 mg/m^3 TWA: 5 mg/m^3
Butane	STEL: 1000 ppm	No data available	TWA: 800 ppm TWA: 1900 mg/m^3
Hexane	TWA: 50 ppm Skin	TWA: 500 ppm TWA: 1800 mg/m^3	IDLH: 1100 ppm TWA: 50 ppm TWA: 180 mg/m^3
Naphtha, petroleum, hydrotreated light	No data available	No data available	No data available
Zinc oxide	TWA: 2 mg/m^3 STEL: 10 mg/m^3	TWA: 5 mg/m^3 TWA: 15 mg/m^3	IDLH: 500 mg/m^3 Ceiling: 15 mg/m^3 STEL 10 mg/m^3 TWA: 5 mg/m^3
Solvent naphtha (petroleum), light aliphatic	No data available	No data available	No data available
Aluminum benzoate fatty acid complex	No data available	No data available	No data available
Heptane (n-)	TWA: 400 ppm STEL: 500 ppm	TWA: 500 ppm TWA: 2000 mg/m^3	IDLH: 750 ppm Ceiling: 440 ppm Ceiling: 1800 mg/m^3 TWA: 85 ppm TWA: 350 mg/m^3
Propane	TWA: 1000 ppm	TWA: 1000 ppm TWA: 1800 mg/m^3	IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m^3
Cyclohexane	TWA: 100 ppm	TWA: 300 ppm TWA: 1050 mg/m^3	IDLH: 1300 ppm TWA: 300 ppm TWA: 1050 mg/m^3
Methylcyclopentane	No data available	No data available	No data available

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 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 Ensure that eyewash stations and safety showers are close to the workstation location. Wear protective clothing when handling . Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Semi-Solid	**Viscosity**	Viscous
Color	Gray	**Odor**	Odorless
Odor Threshold	Not applicable	**Appearance**	Opaque
pH	Not applicable	**Specific Gravity**	0.972
Evaporation Rate	24.5 (Butyl acetate=1)	**Percent Volatile (Volume)**	56.4
VOC Content (%)	40.5	**VOC Content (g/L)**	349
Vapor Pressure	886 mmHg @ 70°F	**Vapor Density**	2.0 (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	No data available	**Flammability (solid, gas)**	No data available
Flash Point	74 °F / 23 °C	**Method**	Seta closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %	Mixture.	**Upper** 9.5 **Lower** 1.1	

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, Reducing agents, Acids, Bases, Metals.
Hazardous Decomposition Products	Carbon oxides, Zinc oxide fumes, Phenols.
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 Eye contact, Skin contact, Inhalation.
Primary Routes of Entry Inhalation, Skin Absorption.
Acute Effects
Eyes Causes eye irritation.
Skin Causes skin irritation. May be absorbed through the skin in harmful amounts. Repeated exposure may cause skin dryness or cracking.
Inhalation 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. Irregular cardiac activity.
Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Causes headache, drowsiness or other effects to the central nervous system.
Chronic Toxicity Repeated and prolonged exposure to solvents may cause brain and nervous system damage. May cause irregular heartbeats, especially under conditions of stress. Liver and kidney injuries may occur. Contains a known or suspected reproductive toxin. Contains a known or suspected carcinogen.
Target Organ Effects Central nervous system, Peripheral Nervous System (PNS), Respiratory system, Liver, Kidney, Spleen, Heart.
Aggravated Medical Conditions Neurological disorders, Liver disorders, Respiratory disorders, Skin disorders, Kidney disorders.

Component Information

Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Calcium carbonate	= 6450 mg/kg (Rat)	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
Hexane	no data available	= 3000 mg/kg (Rabbit)	= 48000 ppm (Rat) 4 h	no data available	no data available
Naphtha, petroleum, hydrotreated light	> 5000 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 73680 ppm (Rat) 4 h	no data available	no data available
Zinc oxide	> 5000 mg/kg (Rat)	no data available	no data available	no data available	no data available
Solvent naphtha (petroleum), light aliphatic	no data available	= 3000 mg/kg (Rabbit)	no data available	no data available	no data available
Aluminum benzoate fatty acid complex	no data available	no data available	no data available	no data available	no data available
Heptane (n-)	no data available	= 3000 mg/kg (Rabbit)	= 103 g/m^3 (Rat) 4 h	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
Cyclohexane	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 13.9 mg/L (Rat) 4 h	no data available	no data available
Methylcyclopentane	no data available	no data available	no data available	no data available	no data available

Chronic Toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Calcium carbonate	no data available	no data available	no data available	no data available	eyes, respiratory system, skin
Butane	no data available	no data available	no data available	no data available	CNS, heart
Hexane	no data available	no data available	no data available	yes	eyes, CNS, respiratory system, auditory system, skin, PNS, heart
Naphtha, petroleum, hydrotreated light	no data available	no data available	no data available	no data available	no data available
Zinc oxide	no data available	no data available	no data available	no data available	respiratory system, CNS
Solvent naphtha (petroleum), light aliphatic	no data available	no data available	no data available	no data available	no data available
Aluminum benzoate fatty acid complex	no data available	no data available	no data available	no data available	no data available
Heptane (n-)	no data available	no data available	no data available	no data available	skin, CNS, respiratory system, heart
Propane	no data available	no data available	no data available	no data available	CNS, heart
Cyclohexane	no data available	no data available	no data available	no data available	eyes, CNS, kidneys, respiratory system, skin
Methylcyclopentane	no data available	no data available	no data available	no data available	no data available

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

Component	ACGIH	IARC	NTP	OSHA	Other
Calcium carbonate	not applicable	not applicable	not applicable	not applicable	not applicable
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
Hexane	not applicable	not applicable	not applicable	not applicable	not applicable
Naphtha, petroleum,	not applicable	not applicable	not applicable	not applicable	not applicable

hydrotreated light					
Zinc oxide	not applicable	not applicable	not applicable	not applicable	not applicable
Solvent naphtha (petroleum), light aliphatic	not applicable	not applicable	not applicable	not applicable	not applicable
Aluminum benzoate fatty acid complex	not applicable	not applicable	not applicable	not applicable	not applicable
Heptane (n-)	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
Cyclohexane	not applicable	not applicable	not applicable	not applicable	not applicable
Methylcyclopentane	not applicable	not applicable	not applicable	not applicable	not applicable

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Component	Toxicity to Algae	Toxicity to Fish	Microtox	Water Flea	log Pow
Calcium carbonate	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
Hexane	no data available	LC50 2.1 - 2.98 mg/L Pimephales promelas 96 h	no data available	EC50> 1000 mg/L 24 h	N/A
Naphtha, petroleum, hydrotreated light	no data available	no data available	no data available	LC50= 2.6 mg/L 96 h	N/A
Zinc oxide	no data available	no data available	no data available	no data available	N/A
Solvent naphtha (petroleum), light aliphatic	EC50 = 4700 mg/L Pseudokirchneriella subcapitata 72 h	no data available	no data available	no data available	N/A
Aluminum benzoate fatty acid complex	no data available	no data available	no data available	no data available	N/A
Heptane (n-)	no data available	LC50 = 375.0 mg/L Cichlid fish 96 h	no data available	EC50> 10 mg/L 24 h	4.66
Propane	no data available	no data available	no data available	no data available	2.3
Cyclohexane	EC50 > 500 mg/L Desmodesmus subspicatus 72 h	LC50 3.96 - 5.18 mg/L Pimephales promelas 96 h LC50 23.03 - 42.07 mg/L Pimephales promelas 96 h LC50 24.99 - 44.69 mg/L Lepomis macrochirus 96 h LC50 48.87 - 68.76 mg/L Poecilia reticulata 96 h	EC50 = 85.5 mg/L 5 min EC50 = 93 mg/L 10 min	EC50> 400 mg/L 24 h	3.44
Methylcyclopentane	no data available	no data available	no data available	no data available	N/A

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. Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name Consumer commodity
Hazard Class ORM-D
Description Consumer commodity,ORM-D

TDG

Hazard Class 2.1
UN-No UN1950

ICAO

Shipping Description DO NOT SHIP AIR

IATA

Shipping Description DO NOT SHIP AIR

IMDG/IMO

Proper Shipping Name	Aerosols, flammable
Hazard Class	2
UN-No	UN1950
EmS No.	F-D, S-U
Shipping Description	UN1950, Aerosols,2,LTD QTY

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
Hexane	110-54-3	5-10	1.0
Zinc oxide	1314-13-2	3-7	1.0
Cyclohexane	110-82-7	1-5	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
Calcium carbonate	Not applicable	Not applicable
Butane	Not applicable	Not applicable
Hexane	5000 lb	Not applicable
Naphtha, petroleum, hydrotreated light	Not applicable	Not applicable
Zinc oxide	Not applicable	Not applicable
Solvent naphtha (petroleum), light aliphatic	Not applicable	Not applicable
Aluminum benzoate fatty acid complex	Not applicable	Not applicable
Heptane (n-)	Not applicable	Not applicable
Propane	Not applicable	Not applicable
Cyclohexane	1000 lb	Not applicable
Methylcyclopentane	Not applicable	Not applicable

U.S. State Regulations

California Proposition 65 This product contains the following Proposition 65 chemicals

Component	CAS-No	California Prop. 65
Toluene	108-88-3	developmental toxicity female reproductive toxicity
Cadmium oxide	1306-19-0	carcinogen
Lead	1317-36-8	carcinogen developmental toxicity
Crystalline Silica (Quartz)	14808-60-7	carcinogen
Benzene	71-43-2	carcinogen developmental toxicity male reproductive toxicity
Mercury	7439-97-6	developmental toxicity
Arsenic	7440-38-2	carcinogen
Beryllium	7440-41-7	carcinogen
Cadmium	7440-43-9	carcinogen developmental toxicity

16. OTHER INFORMATION

Prepared By	Sarah Williamson
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Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

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