

5363 – CC-93 CLEAR AEROSOL

Issuing Date Dec 2012

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name CC-93 CLEAR AEROSOL**Product Code** 5363**Recommended use** Lubricant**Chemical Nature** Hydrocarbon mixture (aerosol)**Information on Manufacturer****Emergency Telephone Number**

MANTEK, DIV. OF NCH CORP.

040178972

5-9, Ralph Street, Alexandria, NSW-2015

Ph: (02)96690260 Fax: (02)96931562

2. HAZARDS IDENTIFICATION

Emergency Overview

DANGER

Extremely flammable

May be harmful if inhaled

Causes skin irritation

Causes eye irritation

Harmful or fatal if swallowed

Contents under pressure

Color Amber - brown**Physical State** Liquid**Odor** Petroleum distillates**Potential Health Effects****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 be absorbed through the skin in harmful amounts.

Inhalation

May cause irritation of respiratory tract. 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 be fatal if inhaled in large quantities.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways.**Chronic toxicity**

Repeated and prolonged exposure to solvents may cause brain and nervous system damage. Blood disorder may occur after prolonged inhalation. May cause cardiac arrhythmia. Liver and kidney injuries may occur.

Target Organ Effects

Liver, Kidney, Central nervous system, Blood, Eyes, Skin, Respiratory system, Cardiovascular system.

Aggravated Medical Conditions

Skin disorders, Respiratory disorders, Neurological disorders, Heart disease, Liver disorders, Kidney disorders, Blood disorders.

Potential Environmental Effects

See Section 12 for additional Ecological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No
Butane	106-97-8
1,3,5-Trimethylbenzene	108-67-8
Nonane	111-84-2
Aliphatic hydrocarbon resin	152698-66-3
Barium carbonate	513-77-9
Petroleum distillates, hydrotreated light	64742-47-8
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	64742-52-5
Solvent naphtha (petroleum), medium aliphatic	64742-88-7
Petroleum naphtha, light aromatic	64742-95-6
Acids, lanolin	68424-43-1
Propane	74-98-6
Petroleum distillate	8052-41-3
Pseudocumene	95-63-6
Cumene	98-82-8

The product contains no substances which at their given concentration, are considered to be hazardous to health

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 not breathing, give 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.

5. FIRE-FIGHTING MEASURES

Flash Point >48°C **Method** Seta closed cup
Autoignition Temperature No information available.
Flammability Limits in Air % Mixture. **Upper** 9.5 **Lower** 0.08

Suitable Extinguishing Media

Foam. Alcohol-resistant foam. Carbon dioxide (CO2). Water spray. Dry powder.

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 inches / 26 cm and Burnback: 0 inches / 0 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.

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.
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.
Storage Temperature **Minimum** 2°C **Maximum** 49°C
Storage Conditions **Indoor** X **Outdoor** **Heated** **Refrigerated**

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH
Butane	: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4) : 1000 ppm TWA	No data available	: 800 ppm TWA; 1900 mg/m ³ TWA
1,3,5-Trimethylbenzene	TWA: 25 ppm	No data available	: 25 ppm TWA; 125 mg/m ³ TWA
Nonane	: 200 ppm TWA	No data available	: 200 ppm TWA; 1050 mg/m ³ TWA
Aliphatic hydrocarbon resin	No data available	No data available	No data available
Barium carbonate	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³	TWA: 0.5 mg/m ³
Petroleum distillates, hydrotreated light	5 mg/m ³ as oil mist	10 mg/m ³ as oil mist	No data available
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	TWA: 5 mg/m ³ ; STEL: 10 mg/m ³	TWA: 5 mg/m ³	IDLH: 2,500 mg/m ³ ; STEL 10 mg/m ³ ; TWA: 5 mg/m ³
Solvent naphtha (petroleum), medium aliphatic	No data available	No data available	No data available
Petroleum naphtha, light aromatic	No data available	No data available	No data available
Acids, lanolin	No data available	No data available	No data available
Propane	: 1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4) : 1000 ppm TWA	: 1000 ppm TWA; 1800 mg/m ³ TWA	: 2100 ppm IDLH (10% LEL) : 1000 ppm TWA; 1800 mg/m ³ TWA
Petroleum distillate	: 100 ppm TWA	: 500 ppm TWA; 2900 mg/m ³ TWA	: 20000 mg/m ³ IDLH : 350 mg/m ³ TWA : 1800 mg/m ³ Ceiling (15 min)
Pseudocumene	TWA: 25 ppm	No data available	: 25 ppm TWA; 125 mg/m ³ TWA
Cumene	: 50 ppm TWA	: 50 ppm TWA; 245 mg/m ³ TWA Skin	: 900 ppm IDLH (10% LEL) : 50 ppm TWA; 245 mg/m ³ TWA

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Viscosity	Slight Viscous
Color	Amber - brown	Odor	Petroleum distillates
Appearance	Transparent - Slightly Cloudy	pH	Not applicable
Specific Gravity	0.831	Evaporation Rate	17.4 (Butyl acetate=1)
Percent Volatile (Volume)	58.5	VOC Content (%)	53.0
Vapor Pressure	1511 mmHg @ 21.11°C	Vapor Density	1.9 (Air = 1.0)
Solubility	Negligible	Boiling Point/Range	174°C

10. STABILITY AND REACTIVITY

Chemical Stability	Stable. Hazardous polymerization does not occur.
Conditions to Avoid	Heat, flames, and sparks
Incompatible Products	Strong oxidizing agents, Strong acids.
Hazardous Decomposition Products	Carbon oxides, Aldehydes, Ketones.
Possibility of Hazardous Reactions	None under normal processing.

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

Component Information**Acute toxic**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	Draize Test	Other
Butane	no data available	no data available	= 658 mg/L (Rat) 4 h	no data available	no data available
1,3,5-Trimethylbenzene	= 5000 mg/kg (Rat) = 8970 mg/kg (Rat)	no data available	= 24 g/m ³ (Rat) 4 h	no data available	no data available
Nonane	no data available	no data available	= 3200 ppm (Rat) 4 h	no data available	no data available
Aliphatic hydrocarbon resin	no data available	no data available	no data available	no data available	no data available
Barium carbonate	= 418 mg/kg (Rat)	no data available	no data available	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
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 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 naphtha, light aromatic	= 8400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h = 3400 ppm (Rat) 4 h	no data available	no data available
Acids, lanolin	> 5000 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
Petroleum distillate	no data available	no data available	no data available	no data available	no data available
Pseudocumene	= 8970 mg/kg (Rat) = 3400 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 18 g/m ³ (Rat) 4 h	no data available	no data available
Cumene	= 1400 mg/kg (Rat)	> 3160 mg/kg (Rabbit)	= 39000 mg/m ³ (Rat) 4 h	no data available	no data available

Chronic toxicity

Component	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Butane	no data available	no data available	no data available	no data available	CNS
1,3,5-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
Aliphatic hydrocarbon resin	no data available	no data available	no data available	no data available	no data available
Barium carbonate	no data available	no data available	no data available	no data available	no data available
Petroleum distillates, hydrotreated light	no data available	no data available	no data available	no data available	CNS, cardiovascular system, respiratory system
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	no data available	no data available	no data available	no data available	respiratory system
Solvent naphtha (petroleum), medium aliphatic	no data available	no data available	no data available	no data available	CNS, liver, kidneys
Petroleum naphtha, light aromatic	no data available	no data available	no data available	no data available	CNS
Acids, lanolin	no data available	no data available	no data available	no data available	no data available
Propane	no data available	no data available	no data available	no data available	CNS
Petroleum distillate	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin, kidneys
Pseudocumene	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin, blood
Cumene	no data available	no data available	no data available	no data available	eyes, CNS, respiratory system, skin

Carcinogenicity

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

Component	ACGIH	IARC	NTP	OSHA	Other
Butane	not applicable	not applicable	not applicable	not applicable	not applicable
1,3,5-Trimethylbenzene	not applicable	not applicable	not applicable	not applicable	not applicable

Nonane	not applicable	not applicable	not applicable	not applicable	not applicable
Aliphatic hydrocarbon resin	not applicable	not applicable	not applicable	not applicable	not applicable
Barium carbonate	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillates, hydrotreated light	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	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 naphtha, light aromatic	not applicable	not applicable	not applicable	not applicable	not applicable
Acids, lanolin	not applicable	not applicable	not applicable	not applicable	not applicable
Propane	not applicable	not applicable	not applicable	not applicable	not applicable
Petroleum distillate	not applicable	not applicable	not applicable	not applicable	not applicable
Pseudocumene	not applicable	not applicable	not applicable	not applicable	not applicable
Cumene	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
Butane	no data available	no data available	no data available	no data available	2.89
1,3,5-Trimethylbenzene	no data available	= 3.48 mg/L Pimephales promelas 96 h = 7.72 mg/L Pimephales promelas 96 h	no data available	= 50 mg/L 24 h	N/A
Nonane	no data available	no data available	no data available	no data available	N/A
Aliphatic hydrocarbon resin	no data available	no data available	no data available	no data available	N/A
Barium carbonate	no data available	= 6950 mg/L Gambusia affinis 96 h	no data available	no data available	N/A
Petroleum distillates, hydrotreated light	no data available	= 2.4 mg/L Oncorhynchus mykiss 96 h = 45 mg/L Pimephales promelas 96 h = 2.2 mg/L Lepomis macrochirus 96 h	no data available	= 4720 mg/L 96 h	N/A
Petroleum distillates, hydrotreated heavy naphthenic (<3% DMSO extractable)	no data available	> 5000 mg/L Oncorhynchus mykiss 96 h	no data available	> 1000 mg/L 48 h	N/A
Solvent naphtha (petroleum), medium aliphatic	= 450 mg/L Pseudokirchneriella subcapitata 96 h	= 800 mg/L Pimephales promelas 96 h	no data available	> 100 mg/L 48 h	N/A
Petroleum naphtha, light aromatic	no data available	= 9.22 mg/L Oncorhynchus mykiss 96 h	no data available	= 6.14 mg/L 48 h	N/A
Acids, lanolin	no data available	no data available	no data available	no data available	N/A
Propane	no data available	no data available	no data available	no data available	2.8
Petroleum distillate	no data available	no data available	no data available	no data available	N/A
Pseudocumene	no data available	7.19-8.28 mg/L Pimephales promelas 96 h = 7.72 mg/L Pimephales promelas 96 h	no data available	= 6.14 mg/L 48 h	3.63
Cumene	= 2.6 mg/L Pseudokirchneriella subcapitata 72 h	6.04-6.61 mg/L Pimephales promelas 96 h = 2.7 mg/L Oncorhynchus mykiss 96 h = 5.1 mg/L Poecilia reticulata 96 h = 4.8 mg/L Oncorhynchus mykiss 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	7.9 - 14.1 mg/L 48 h = 0.6 mg/L 48 h	3.55 at 23 ° C

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

Warning! Container under pressure. Do not puncture. Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

ADG

UN-No	UN1950
Proper Shipping Name	Aerosols
Hazard Class	2.1
Hazchem Code	2(Y)
Shipping Description	AEROSOLS, FLAMMABLE, 2.1, UN 1950.

15. REGULATORY INFORMATION

Poison Schedule

Schedule 5

16. OTHER INFORMATION

Prepared By	Technical Service Chemist
Supersedes Date	Feb -2010
Issuing Date	DEC 2012
Reason for Revision	No information available.
Glossary	No information available.
List of References.	No information available.

MANTEK, DIV. OF NCH CORP. assumes no responsibility for personal injury or property damage caused by the use, storage, or disposal of the product in a manner not recommended on the product label. Users assume all risks associated with such unrecommended use, storage or disposal of the product. The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.