Safety Data Sheet: QWIK-START AEROSOL SAMPLE, US MM

Supercedes Date 07/17/2015 **Issuing Date** 03/08/2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name QWIK-START AEROSOL SAMPLE, US MM
Recommended use Fuel additive
Information on Manufacturer
CERTIFIED LABS, DIV. OF NCH CORP.
BOX 152170
IRVING, TEXAS 75015

Product Code 5330
Chemical nature Flammable Aerosol
Emergency Telephone
CHEMTREC® 800-424-9300
Telephone inquiry
972-579-2477

SDS #19

2. HAZARD IDENTIFICATION

Color Colorless to Light yellow **Physical state** Gas **Odor** Ether-like

GHS Classification

Physical Hazards

Flammable Aerosols	Category 1
Gases under pressure	Compressed Gas

Health Hazard

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 2
Reproductive Toxicity	Category 2
Carcinogenicity	Category 2
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
H302 - Harmful if swallowed
H351 - Suspected of causing cancer
H361 - Suspected of damaging fertility or the unborn child
H280 - Contains gas under pressure; may explode if heated

Precautionary Statements
P202 - Do not handle until all safety precautions have been read and understood
P270 - Do not eat, drink or smoke when using this product
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
P260 - Do not breathe vapor, 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.
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P308 + P313 - IF exposed or concerned, 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.

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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Ethyl ether	60-29-7	30-60
Petroleum gases, liquified, sweetened	68476-86-8	15-40
Heptane, branched cyclic	426260-76-6	10-30
Heptane (n-)	142-82-5	3-7
Ethanol	64-17-5	1-5
Ethyl chloride	75-00-3	0.1-1.0
Toluene	108-88-3	0.1-1.0

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

4. FIRST AID MEASURES

General advice Do not get in eyes, on skin or on clothing. Do not breathe vapors, mist or gas.

Eye Contact No hazards which require special first aid measures.

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 Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash Point < -141.2 °F / < -96 °C **Method** Tag closed cup

Flammability Limits in Air %: Solvent mixture. **Upper:** 36 **Lower:** 1.05

Suitable Extinguishing Media

Alcohol-resistant 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. Flame extension: >30 inches / >76 cm and Burnback: >2 inch / >5 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** 0

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

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 Keep away from open flames, hot surfaces and sources of ignition. Do not get in eyes, on skin or on clothing. Do not breathe vapor, mist or gas.

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** 0 °F / -18 °C **Maximum** 100 °F / 38 °C

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Ethyl ether	TWA: 400 ppm	TWA: 400 ppm	1900 ppm

	STEL: 500 ppm	TWA: 1200 mg/m^3	
Heptane (n-)	TWA: 400 ppm STEL: 500 ppm	TWA: 500 ppm TWA: 2000 mg/m^3	750 ppm Ceiling: 440 ppm Ceiling: 1800 mg/m^3 TWA: 85 ppm TWA: 350 mg/m^3
Ethanol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m^3	3300 ppm TWA: 1000 ppm TWA: 1900 mg/m^3
Ethyl chloride	TWA: 100 ppm Skin	TWA: 1000 ppm TWA: 2600 mg/m^3	3800 ppm
Toluene	TWA: 20 ppm	TWA: 200 ppm Ceiling: 300 ppm	500 ppm STEL 150 ppm STEL 560 mg/m^3 TWA: 100 ppm TWA: 375 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 Safety glasses with side-shields.

Skin Protection For prolonged or repeated contact, use protective gloves with appropriate chemical resistance.

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. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Gas	**Viscosity**	Non viscous
Color	Colorless to Light yellow	**Odor**	Ether-like
Odor Threshold	Not applicable	**Appearance**	Transparent Liquid
pH	Not applicable	**Specific Gravity**	0.7230
Evaporation Rate	No data available	**Percent Volatile (Volume)**	>93
VOC Content (%)	93.3	**VOC Content (g/L)**	674.6
Vapor Pressure	No data available	**Vapor Density**	No information available
Solubility	Negligible	**n-Octanol/Water Partition**	No data available
Melting Point/Range	No data available	**Decomposition Temperature**	No data available
Boiling Point/Range	-24 °F / -31 °C	**Flammability (solid, gas)**	No data available
Flash Point	< -141.2 °F / < -96 °C	**Method**	Tag closed cup
Autoignition Temperature	No information available.		
Flammability Limits in Air %:	Solvent mixture	**Upper:** 36 **Lower:** 1.05	

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions. Hazardous polymerization does not occur.

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

Incompatible Products Strong acids and strong bases.

Decomposition Temperature No data available

Hazardous Decomposition Products Carbon oxides, Highly toxic fumes.

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 Inhalation, Skin contact, Eye contact.

Primary Routes of Entry Skin contact, Skin Absorption.

Acute Effects:

Eyes Low hazard for usual industrial or commercial handling.
Skin Causes skin irritation.
Inhalation Inhalation may cause central nervous system effects. Causes headache, drowsiness or other effects to the central nervous system.
Ingestion Harmful if swallowed.
Chronic Toxicity: Contains a known or suspected reproductive toxin. Contains a known or suspected carcinogen.
Target Organ Effects: Eyes, Skin, Respiratory system, Central nervous system, Kidney, Liver, Reproductive System, Blood.
Aggravated Medical Conditions Respiratory disorders, Skin disorders, Neurological disorders, Heart disease, Kidney disorders, Liver disorders, Blood disorders.

Component Information

Acute Toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50	Draize Test	Other
Ethyl ether 60-29-7	1215 mg/kg (Rat)	> 14200 mg/kg (Rabbit)	99 mg/l/4h (Rat); 32000 ppm/4h (Rat)	No data available	No data available
Heptane, branched cyclic 426260-76-6	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	103 mg/l/4h (Rat); 25000 ppm/4h (Rat)	No data available	No data available
Heptane (n-) 142-82-5	> 5000 mg/kg (Rat)	3000 mg/kg (Rabbit)	103 g/m^3 (Rat)4h	No data available	No data available
Ethanol 64-17-5	10740 mg/kg (Rat)	no data available	124.7 mg/L (Rat)4h	No data available	No data available
Ethyl chloride 75-00-3	No data available	no data available	152 g/m^3 (Rat) 2h	No data available	No data available
Toluene 108-88-3	636 mg/kg (Rat)	8390 mg/kg (Rabbit); 12124 mg/kg(Rat)	12.5 mg/L/4h (Rat); > 26700 ppm (Rat)1h	No data available	No data available

Chronic Toxicity

Chemical Name	Mutagenicity	Sensitization	Developmental Toxicity	Reproductive Toxicity	Target Organ Effects
Ethyl ether 60-29-7	No data available	No data available	No data available	No data available	Skin; Central nervous system; Eyes; Respiratory system
Heptane (n-) 142-82-5	No data available	No data available	No data available	No data available	Skin; Central nervous system; Respiratory system
Ethanol 64-17-5	No data available	No data available	No data available	No data available	Blood; Skin; Central nervous system; Eyes; Respiratory system; Reproductive System; Liver
Ethyl chloride 75-00-3	No data available	No data available	No data available	No data available	Central nervous system; Respiratory system; Liver; Kidney
Toluene 108-88-3	No data available	No data available	yes	X	Skin; Central nervous system; Eyes; Respiratory system; Liver; Kidney

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

Chemical Name	ACGIH	IARC	NTP	OSHA	Other
Ethanol 64-17-5	A3	Group 1 (1)	Not applicable	X	Not applicable
Ethyl chloride 75-00-3	A3	Group 3	Not applicable	Not applicable	Not applicable
Toluene 108-88-3	A4	Group 3	Not applicable	Not applicable	Not applicable

(1) IARC classification for Ethyl alcohol (Ethanol) is intended for use in alcoholic beverage use only. This product is not intended for this use.

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Crustacea	Partition coefficien
Ethyl ether	No information available.	LC50 = 2560 mg/L Pimephales promelas 96 h LC50 > 10000 mg/L Lepomis macrochirus 96 h	EC50 = 5600 mg/L 15 min	No information available.	0.82
Petroleum gases, liquified, sweetened	No information available.	No information available.	No information available	No information available.	2.8
Heptane (n-)	No information available.	LC50 = 375.0 mg/L Cichlid fish 96 h	No information available	No information available.	4.66
Ethanol	No information available.	LC50 12.0 - 16.0 mL/L Oncorhynchus mykiss 96 h LC50 > 100 mg/L Pimephales promelas 96 h LC50 13400 - 15100 mg/L Pimephales promelas 96 h	No information available	9268 - 14221: 48 h Daphnia magna mg/L LC50 2: 48 h Daphnia magna mg/L EC50 Static	-0.32

Ethyl chloride	EC50 = 39 mg/L Desmodesmus subspicatus 72 h	No information available.	No information available	58: 48 h Daphnia magna mg/L EC50	1.52
Toluene	EC50 > 433 mg/L Pseudokirchneriella subcapitata 96 h EC50 = 12.5 mg/L Pseudokirchneriella subcapitata 72 h	LC50 15.22 - 19.05 mg/L Pimephales promelas 96 h LC50 = 12.6 mg/L Pimephales promelas 96 h LC50 5.89 - 7.81 mg/L Oncorhynchus mykiss 96 h LC50 14.1 - 17.16 mg/L Oncorhynchus mykiss 96 h LC50 = 5.8 mg/L Oncorhynchus mykiss 96 h LC50 11.0 - 15.0 mg/L Lepomis macrochirus 96 h LC50 = 54 mg/L Oryzias latipes 96 h LC50 = 28.2 mg/L Poecilia reticulata 96 h LC50 50.87 - 70.34 mg/L Poecilia reticulata 96 h	EC50 = 19.7 mg/L 30 min	5.46 - 9.83: 48 h Daphnia magna mg/L EC50 Static 11.5: 48 h Daphnia magna mg/L EC50	2.65

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** AEROSOLS, FLAMMABLE
- **Hazard Class** 2.1
- **UN-No** UN1950
- **Description** UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD QTY

TDG
- **Proper shipping name** AEROSOLS, FLAMMABLE
- **Hazard Class** 2.1
- **UN-No** UN1950
- **Description** UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD QTY

ICAO
- **Shipping Description** DO NOT SHIP AIR

IATA
- **Shipping Description** DO NOT SHIP AIR

IMDG/IMO
- **UN proper shipping name** AEROSOLS
- **Hazard Class** 2.1
- **UN Number** UN1950
- **Description** UN1950, AEROSOLS, FLAMMABLE, 2.1, 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:

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values

Ethyl chloride	75-00-3	0.1-1.0	1.0

SARA 311/312 Hazardous Categorization

See Section 2

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA EHS RQs
Ethyl ether	100 lb	Not applicable
Ethyl chloride	100 lb	Not applicable
Toluene	1000 lb	Not applicable

16. OTHER INFORMATION

Prepared By Pamela Starkey
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Reason for Revision No information available.
Glossary No information available.
List of References. No information available.

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