



Safety Data Sheet Super Q®

1. Identification

PRODUCT IDENTIFIER

Product Identity Super Q®

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

Intended use See Technical Data Sheet.

Application Method See Technical Data Sheet.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

Company Name Refined Technologies, Inc.
P.O. Box 132196
The Woodlands, Texas 77393

Contact information 888-634-3183

EMERGENCY TELEPHONE NUMBER PERS: (800) 633-8253

2. Hazard(s) Identification

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Flam. Liq. 3;H226	Flammable liquid and vapor.
Skin Irrit. 2;H315	Causes skin irritation.
Eye Irrit. 2;H319	Causes serious eye irritation.
Skin Sens. 1;H317	May cause an allergic skin reaction.
Asp. Tox. 1;H304	May be fatal if swallowed and enters airways.

LABEL ELEMENTS

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.



Danger

H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.



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H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

[Prevention]:

P210 Keep away from heat / sparks / open flames / hot surfaces - No smoking.

P235 Keep cool.

P240 Ground / bond container and receiving equipment.

P241 Use explosion-proof electrical / ventilating / light / equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves / eye protection

[Response]:

P301+310 IF SWALLOWED: Immediately call a POISON CENTER or doctor / physician.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P303+361+353 IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.

P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

P313 Get medical advice / attention.

P321 Specific treatment (see information on this label).

P331 Do NOT induce vomiting.

P333+313 If skin irritation or a rash occurs: Get medical advice / attention.

P337+313 If eye irritation persists: Get medical advice / attention.

P362 Take off contaminated clothing and wash before reuse.

P363 Wash contaminated clothing before reuse.

P370+378 In case of fire: Use extinguishing media listed in section 5 of SDS for extinction.

[Storage]:

P403+233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

[Disposal]:

P501 Dispose of contents / container in accordance with local / national regulations.



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3. Composition/Information on Ingredients

MIXTURES

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Natural Terpenes CAS Number: Proprietary	75 - 100	Flam. Liq. 3;H226 Asp. Tox. 1;H304 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Chronic 2;H411	[1]
Additive Package CAS Number: Proprietary	1.0 - 10	Skin Irrit. 2;H315 Eye Dam. 1;H318	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First Aid Measures

DESCRIPTION OF FIRST AID MEASURES

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser.
Ingestion	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Overview	Primary routes of entry: eyes, skin Effect of acute and chronic overexposure: Acute: Eyes: Liquid causes eye irritation. Skin: Prolonged contact, as with clothing wetted with material, may cause more severe irritation and discomfort. May cause dermatitis and aggravate existing skin conditions. Respiratory System: High vapor concentration may cause headaches and irritation to the respiratory system.
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Ingestion: May irritate stomach and intestines. If swallowed may be aspirated into lungs resulting in pulmonary edema and chemical pneumonitis. Ingestion may cause burns to the digestive tract.

Chronic: Repeated skin contact may cause a persistent irritation or dermatitis.

Carcinogenic data: This product is not currently listed as a carcinogen by NTP, OSHA, ACGIH, or IARC.

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage. See section 2 for further details.

Inhalation	May be fatal if swallowed and enters airways.
Eyes	Causes serious eye irritation.
Skin	May cause an allergic skin reaction. Causes skin irritation.

5. Fire-Fighting Measures

FLAMMABILITY

Flammability Flash Point: 108°F/42°C (Tag Closed Cup)

EXTINGUISHING MEDIA

Water, dry chemical, carbon dioxide or halon

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Avoid use of any ignition source near spill.

Hazardous decomposition: High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

Keep away from heat / sparks / open flames / hot surfaces - No smoking.

Keep cool.

Ground / bond container and receiving equipment.

Use explosion-proof electrical / ventilating / light / equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust / fume / gas / mist / vapors / spray.

ADVICE FOR FIRE-FIGHTERS

Guard against spontaneous combustion of improperly discarded oily rags.

Use self-contained breathing apparatus.



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ERG Guide No. 128

6. Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Put on appropriate personal protective equipment (see section 8).

Avoid use of any ignition source near spill.

ENVIRONMENTAL PRECAUTIONS

Do not allow spills to enter drains or waterways.

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Avoid use of any ignition source near spill.

Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, and vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.

7. Handling and Storage

PRECAUTIONS FOR SAFE HANDLING

See section 2 for further details. - [Prevention]:

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Handle containers carefully to prevent damage and spillage.

Naked flames and smoking should not be permitted in storage areas. It is recommended that fork lift trucks and electrical equipment are protected to the appropriate standard.

Store in glass, tin-lined, stainless steel or epoxy-lined containers in well ventilated areas at temperatures below 130F. Do not store in plastics incompatible with product. Store in closed containers away from heat or sources of ignition and oxidizing materials. Protect against physical damage to containers.

Incompatible materials: Strong oxidizing agents and acids.

See section 2 for further details. - [Storage]:



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8. Exposure Controls and Personal Protection

CONTROL PARAMETERS

Exposure

No established exposure limits for this product.

Carcinogen Data

No established chemicals at levels which require reporting for this product.

EXPOSURE CONTROLS

Respiratory	Not required in presence of good general ventilation. If conditions warrant, use NIOSH approved respirator.
Eyes	Protective safety glasses recommended
Skin	Nitrile gloves recommended.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Ensure emergency eye wash and shower stations are available. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

9. Physical and Chemical Properties

Appearance	Clear Yellow Liquid
Odor	Natural Terpene Odor
Odor threshold	Not Measured
pH	Neutral (10% solution with water)
Melting point / freezing point	Liquid @25°C
Initial boiling point and boiling range	Not Measured
Flash Point	108°F (PMCC)
Evaporation rate	< 1 (H ₂ O=1)
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not Measured

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

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Vapor pressure	Upper Explosive Limit: Not Measured
Vapor Density	<2 mm Hg (Primary Constituent)
Specific Gravity	>1 (air=1)
Solubility in Water	0.838 @ 25°C (H ₂ O=1)
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not Measured
Decomposition temperature	Not Measured
Viscosity (cSt)	<20.5

10. Stability and Reactivity

REACTIVITY

Hazardous Polymerization will not occur.

CHEMICAL STABILITY

Stable under normal circumstances.

POSSIBILITY OF HAZARDOUS REACTIONS

No data available.

CONDITIONS TO AVOID

Excessive heat and open flame.

INCOMPATIBLE MATERIALS

Strong oxidizing agents and acids.

HAZARDOUS DECOMPOSITION PRODUCTS

High temperatures and fires may produce such toxic substances as carbon monoxide and carbon dioxide.

11. Toxicological Information

ACUTE TOXICITY

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.



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Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	2	Causes skin irritation.
Serious eye damage/irritation	2	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	1	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	1	May be fatal if swallowed and enters airways.

12. Ecological Information

TOXICITY

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and GHS and is not classified as dangerous for the environment, but contains substance(s) dangerous for the environment. See section 3 for details

AQUATIC ECOTOXICITY

PERSISTENCE AND DEGRADABILITY

There is no data available on the preparation itself.

BIOACCUMULATIVE POTENTIAL

Not Measured

MOBILITY IN SOIL

No data available.

RESULTS OF PBT AND vPvB ASSESSMENT

This product contains no PBT/vPvB chemicals.



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OTHER ADVERSE EFFECTS

No data available.

13. Disposal Considerations

WASTE TREATMENT METHODS

Hazardous substances cleaned with this product may be considered hazardous waste. Unused portions of this product must be disposed of as ignitable waste. Observe all federal, state and local regulations when disposing of this substance.

14. Transport Information

Non-Bulk Domestic Ground: This material is not regulated for domestic ground shipments by the U.S. Department of Transportation (DOT) when transported in non-bulk (a packaging which has a maximum capacity of 119 gallons or less as a receptacle for a liquid). Reference 49 CFR 173.120 (b) (2) and 173.150 (f) (1).

In summary, for non-bulk domestic ground shipments:

DOT Class: Not Regulated

Hazard Class: Not Applicable

UN No.: Not Applicable

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
UN NUMBER	UN2319	UN2319	UN2319
UN PROPER SHIPPING NAME	UN2319, Terpene hydrocarbons, n.o.s., 3, III	Terpene hydrocarbons, n.o.s.	Terpene hydrocarbons, n.o.s.
TRANSPORT HAZARD CLASS(ES)	DOT Hazard Class: 3	IMDG: 3 Sub Class: Not Applicable	Air Class3
PACKING GROUP	III	III	III

ENVIRONMENTAL HAZARDS

IMDG Marine Pollutant: No

SPECIAL PRECAUTIONS FOR USER

No further information



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15. Regulatory Information

REGULATORY OVERVIEW

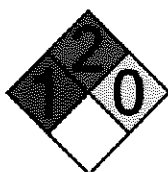
The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

TOXIC SUBSTANCE CONTROL ACT (TSCA)

All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS CLASSIFICATION B3 D2B

NFPA / HMIS Rankings



US EPA TIER II HAZARDS

Fire: Yes

Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): Yes

Delayed (Chronic): No

EPCRA 311/312 CHEMICALS AND RQS:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 EXTREMELY HAZARDOUS:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 TOXIC CHEMICALS:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

PROPOSITION 65 - CARCINOGENS (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

PROPOSITION 65 - DEVELOPMENTAL TOXINS (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

PROPOSITION 65 - FEMALE REPRO TOXINS (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

PROPOSITION 65 - MALE REPRO TOXINS (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

NEW JERSEY RTK SUBSTANCES (>1%) :

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

PENNSYLVANIA RTK SUBSTANCES (>1%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.



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16. Other Information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

This is the second version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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