



Safety Data Sheet QTRX2

1. Identification

PRODUCT IDENTIFIER

Product Identity

QTRX2

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, TX 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.

STOT SE 3;H336

May cause drowsiness or dizziness

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.

H336 May cause drowsiness or dizziness

[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.

P271 Use only outdoors or in a well-ventilated area

P280 Wear protective gloves / eye protection / face protection.

[Response]:

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

P331 Do NOT induce vomiting.

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

P305+351+338 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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.

[Hazards not otherwise classified] (HNOC):

Repeated exposure may cause skin dryness or cracking.



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3. Composition/information on ingredients

SUBSTANCE

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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS Number: Proprietary	100	Flam. Liq. 3;H226 Asp. Tox. 1;H304 STOT SE 3;H338	[1]

In accordance with paragraph (f) 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.

*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	
Ingestion	May irritate stomach and intestines, and may cause burns to the digestive tract. If swallowed may be aspirated into lungs resulting in pulmonary edema and chemical pneumonitis.
Inhalation	High vapor concentration may cause headaches and irritation to the respiratory system. May be fatal if swallowed and enters airways.
Eyes	Burning feeling and temporary redness.
Skin	Non-irritating during normal use.
Symptoms	Headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

5. Fire-fighting measures

FLAMMABILITY

Flammability Flash Point: 106°F (41°C) [Tag Closed Cup]

EXTINGUISHING MEDIA

Foam, dry chemical, carbon dioxide

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Avoid use of any ignition source near spill.

ADVICE FOR FIRE-FIGHTERS

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

6. Accidental release measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Put on appropriate personal protective equipment (see section 8). Eliminate any ignition source near spill. Evacuate non-essential personnel.

ENVIRONMENTAL PRECAUTIONS

Do not allow spills to enter drains or waterways. Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

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. Use non-sparking hand tools and explosion-proof electrical equipment. Ventilate the area and avoid breathing vapors. Take the personal protective measures listed in section 8. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

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

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.



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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. Do not spray at high pressure (>3 bar).

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.

Keep only in the original container or in a suitable container for this kind of product (Steel, Stainless steel). Use only in well ventilated areas at temperatures below 130F. 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]:

8. Exposure controls and personal protection

CONTROL PARAMETERS

Exposure Limits

Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined).

Advisory OEL

CEPIC-HSPA: 1200 mg/m³

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 Colorless Liquid
Odor	Petroleum solvent
Odor threshold	Not Measured
pH	Not Measured
Melting point / freezing point	No information available
Initial boiling point and boiling range	302 – 401 °F (150 – 205 °C)
Flash Point	> 106 °F (> 41 °C) [PMCC]
Evaporation rate	65 (Et/Et=1)
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: 0.6% Upper Explosive Limit: 6.5%
Vapor pressure	2 hPa (@20 °C)
Vapor Density	>1 (air=1)
Specific Gravity	0.790 @ 15C (H2O=1)
Solubility in Water	Not Measured
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	> 446 °F (> 230 °C)
Decomposition temperature	Not Measured
Viscosity (cSt)	<20.5

10. Stability and reactivity

REACTIVITY

Hazardous Polymerization will not occur.

CHEMICAL STABILITY

Stable under normal circumstances.



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POSSIBILITY OF HAZARDOUS REACTIONS

None under normal conditions.

CONDITIONS TO AVOID

Excessive heat and open flame. Static discharges

INCOMPATIBLE MATERIALS

Strong oxidizing agents and acids.

HAZARDOUS DECOMPOSITION PRODUCTS

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot

11. Toxicological information

ACUTE TOXICITY

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrocarbons, C9-C11, n-alkanes, Isoalkanes, cyclics, <2% aromatics	LD50 > 5000 mg/kg bw (rat - OECD 401)	LD50 (24h) > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (8h) > 5000 mg/m ³ (vapour) (rat - OECD 403)

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	---	Causes skin irritation.
Serious eye damage/irritation	---	Causes serious eye irritation.
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	May cause an allergic skin reaction.
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable
STOT-single exposure	3	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	1	May be fatal if swallowed and enters airways.

12. Ecological information

AQUATIC ECOTOXICITY

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

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	Erl50 (72h) > 1000 mg/l (Pseudokirchneriella subcapitata - OECD 201) Ebl50 (72h) > 1000 mg/l (Pseudokirchneriella subcapitata - OECD 201)	LL50 (96h) > 1000 mg/l (Oncorhynchus mykiss - OECD 203)	EL50 (48h) > 1000 mg/l (Daphnia magna - OECD 202)	-
	NOELR (72h)=3 mg/l (Pseudokirchneriella subcapitata - biomass - OECD 201) NOELR (72h) = 100 mg/l (Pseudokirchneriella subcapitata - growth rate - OECD 201)	NOELR (21d) = 0.23 mg/l (Daphnia magna - QSAR Petrotox)	NOELR (28d) = 0.13 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	

PERSISTENCE AND DEGRADABILITY

Readily biodegradable (80% after 28 days).

BIOACCUMULATIVE POTENTIAL

Not Measured

MOBILITY IN SOIL

No data available.

RESULTS OF PBT AND vPvB ASSESSMENT

This product contains no PBT/vPvB chemicals.

OTHER ADVERSE EFFECTS

No data available.



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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	UN1268	UN1268	UN1268
UN PROPER SHIPPING NAME	Petroleum Distillate, N.O.S.	Petroleum Distillate, N.O.S.	Petroleum Distillate, 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: Yes		
SPECIAL PRECAUTIONS FOR USER			
ERG Guide No.	128		

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
Superfund Amendments and Reauthorization Act of 1986 (SARA)	
Hazard categories	Fire Hazard: Yes Pressure Hazard: No Reactive Hazard: No Immediate Hazard (Acute): Yes Delayed Hazard (Chronic): No

SARA 311 / 312 Hazardous chemical: Yes

EPCRA 302 EXTREMELY HAZARDOUS: Not listed

EPCRA 313 TOXIC CHEMICALS: Not regulated

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.

H336 May cause drowsiness or dizziness.

NFPA ratings



SDS Revision Date: 04/05/2017

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