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SAFETY DATASHEET

Product Name: QDoptixal octane booster/fuel system cleaner/diesel deep clean

Effective Date: 2025-10-24

Compiler: Xia Bangwei

Checker: Liu Wangqing

Approver: Dongxuesheng



Shanghai Institute of Chemical Industry Testing Co., Ltd.





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地址：上海市光复西路 2779 号接待大厅

Address: No.2779 West Guangfu Road, Shanghai, China

邮政编码(Post Code): 200062

电话(Tel): (021) 31015134

网址 (web site): www.ghs.cn

电子信箱(E-mail): sds@ghs.cn

Hubei Qingding Energy Technology Co.

SAFETY DATA SHEET

**QDoptixal octane booster/fuel system cleaner/diesel
deep clean**

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name:	QDoptixal octane booster/fuel system cleaner/diesel deep clean
Company:	Hubei Qingding Energy Technology Co.
Address:	Room 09, Office 9/F, Building B, , No. 977 Heping Avenue, Qingshan District, Wuhan City, Hubei Province, 430080, P. R. China
E-mail:	qingdingnengyuan@gmail.com
Fax:	86-18627111674
Emergency Phone:	86-18627111674
Recommend use of the chemical and restrictions on use:	For automotive aftermarket; Inedible.
SDS Number:	262580800260a
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SECTION2 HAZARDS IDENTIFICATION

GHS Classification:

Physical Hazards:

Flammable liquids Category 2

Health Hazards:

Acute toxicity - Oral Category 4

Acute toxicity - Dermal Category 5

Acute toxicity - Inhalation Category 4

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2

Environmental Hazards:

Hazardous to the aquatic environment-Acute hazard Category 1

Hazardous to the aquatic environment-Chronic hazard Category 2

The hazards not mentioned are not applicable or no data available.

Label Elements:

Pictogram:



Signal Word:

Danger

Hazard Statements:

H225 Highly flammable liquid and vapour.
 H302 Harmful if swallowed.
 H313 May be harmful in contact with skin.
 H332 Harmful if inhaled.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H400 Very toxic to aquatic life.
 H411 Toxic to aquatic life with long lasting effects.

Prevention Precautionary Statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed.
 P240 Ground and bond container and receiving equipment.
 P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
 P242 Use non-sparking tools.
 P243 Take action to prevent static discharges.
 P280 Wear protective gloves/ protective clothing /eye protection /face protection/hearing protection.
 P264+P265 Wash hands thoroughly after handling. Do not touch eyes.
 P270 Do not eat, drink or smoke when using this product.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271 Use only outdoors or with adequate ventilation.
 P273 Avoid release to the environment.

Response Precautionary Statements:

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].
 P363 Wash contaminated clothing before reuse.
 P370+P378 In case of fire: Use Water spray, Dry chemical, Carbon dioxide or Suitable foam to extinguish.
 P301+P317 IF SWALLOWED: Get medical help.
 P330 Rinse mouth.
 P302+P317 If ON SKIN: Get medical help.
 P304+P340 If INHALED: Remove person to fresh air and keep comfortable for breathing.
 P332+P317 If skin irritation occurs: Get medical help.
 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+P317 If eye irritation persists: Get medical help.
 P391 Collect spillage.

Storage Precautionary Statements:

P403+P235 Store in a well-ventilated place. Keep cool.

Disposal Precautionary Statements:

P501 Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

Other Hazards:

No data available.

SECTION3 INFORMATION ON INGREDIENTS

Substance/Mixture: Mixture

Product name: QDoptixal octane booster/fuel system cleaner/diesel deep clean

Ingredient	Concentration(%)	CAS NO.	EC NO.
Dimethyl carbonate	30	616-38-6	210-478-4
Acetylacetone	30	123-54-6	204-634-0
Alcohols, C12-14	15	80206-82-2	279-420-3
Dodecanol	15	112-53-8	203-982-0
2-ethoxy-2-methylpropane	10	637-92-3	211-309-7

SECTION4 FIRST-AID MEASURES**Skin Exposure:**

In case of skin contact, flush with copious amounts of water. If irritation persists, Call a physician.

Eye Exposure:

In case of contacting with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, Call a physician.

Inhalation Exposure:

If inhaled, remove to fresh air immediately. If the person feels unwell, Call a physician.

Oral Exposure:

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Most Important Symptoms/Effects, Acute and Delayed:

No data available.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:

No data available.

SECTION5 FIRE FIGHTING MEASURES**Suitable Extinguishing Media:**

Water spray, Dry chemical, Carbon dioxide or Suitable foam.

Specific Hazards Arising from the Chemical:

Highly flammable liquid and vapour. Environmentally hazardous substances. Take care as it may decompose upon combustion or in high temperatures to generate Carbon oxides, etc.

Special Protective Action for Fire-fighters:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place. If the container suddenly makes an abnormal noise or has abnormal phenomena, it should be evacuated immediately.

SECTION 6 ACCIDENTAL RELEASE MEASURES**Personal Precautions, Protective Equipment and Emergency Procedures:**

Use personal protective equipment. Remove all sources of ignition. Avoid inhalation. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off. All equipment used during work should be grounded. Keep spills dry.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Avoid entering drains. Avoid release to the environment. Collect spillage.

Methods and Materials for Containment and Cleaning up:

Mix with inert material (e.g. dry sand, vermiculite) and transfer to a dry, clean, lidded container for disposal. Using non-sparking tools. Avoid inhalation. Ventilate area and wash spill site after material pickup is complete.

SECTION 7 HANDLING AND STORAGE**Precautions for Safe Handling:**

Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and gloves (see Section 8). Avoid inhalation. Avoid contacting with eyes and skin. Handling is performed in a well ventilated place. Keep away from ignition sources, heat and flame. No smoking at working site. Take measures to prevent electrostatic discharge. Electrostatic charges may be generated during pumping. Ensure electrical continuity by bonding all equipment. Avoid contact with incompatible materials (see Section 10). Wash hands and face thoroughly after handling. Load and unload gently when handling. Prevent the package from breaking and getting damp so as to cause losses. Working place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame. Should be stored separately from incompatible materials (see Section 10). Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment. Prohibit the use of mechanical equipment and tools that are prone to sparks.

SECTION 8 EXPOSURE CONTROL/PPE**Control Parameters:**

GBZ 2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1:

Not set up

ACGIH:

Acetylacetone TLV-TWA 25ppm(102mg/m³) Remarks :Skin

Appropriate Engineering Controls:

Mechanical exhaust required. Safety shower and eye bath.

Individual Protection Measures:

Eye/Face Protection:

Wear chemical safety glasses.

Skin Protection:

Hand Protection:Wear anti-static gloves.

Body Protection:Wear anti-static clothing.

Respiratory Protection:

Wear government approved respirator.

Thermal Hazards:

No data available.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance:	Sepia brown Liquid
Odor:	Weak odor
pH Value:	No data available
Solubility:	immiscible in water
Melting Point/Freezing Point:	No data available
Boiling Point, Initial Boiling Point and Boiling Range :	>50°C
Flash Point (Closed Cup):	≤10.0°C
Density/Relative Density :	No data available
Kinematic Viscosity:	No data available
Upper/Lower Flammability or Explosive Limits:	No data available
Vapour Pressure:	No data available
Relative Vapor Density:	No data available
Partition Coefficient N-Octanol/Water (Log Value):	No data available
Autoignition Temperature:	No data available

Decomposition
Temperature: No data available

Particle
Characteristics: Not applicable

Flammability (Solid,
Gas): Not applicable

SECTION10 STABILITY AND REACTIVITY

Reactivity:

No data available.

Chemical Stability:

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions:

No data available.

Conditions to Avoid:

Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatible Materials:

Combustible materials, etc.

Hazardous Decomposition Products:

Carbon oxides, etc.

SECTION11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

Dimethyl carbonate:

LD₅₀ oral - rat - male and female - > 5000 mg/kg (OECD Test Guideline 401)

LC₅₀ Inhalation - Rat - male and female - 4 h - > 5.36 mg/l - vapour (OECD Test Guideline 403)

LD₅₀ transdermal - rabbit - male and female - > 2000 mg/kg Remarks: (ECHA)

Acetylacetone:

LD₅₀ Oral - Rat - female - 570 mg/kg Remarks: (ECHA)

LC₅₀ Inhalation - Rat - male and female - 4 h - 5.0305 mg/l - vapor (OECD Test Guideline 403)

LD₅₀ Dermal - Rabbit - female - 790 mg/kg Remarks: (ECHA)

Skin Corrosion/Irritation:

Causes skin irritation.

Serious Eye Damage/Irritation:

Causes serious eye irritation.

Respiratory Sensitization:

No data available.

Skin Sensitization:

No data available.

Germ Cell Mutagenicity:

No data available.

Carcinogenicity:

No data available.

Reproductive Toxicity:

No data available.

Specific Target Organ Toxicity -Single Exposure:

No data available.

Specific Target Organ Toxicity -Repeated Exposure:

No data available.

Aspiration Hazard:

No data available.

SECTION12 ECOLOGICAL INFORMATION

Toxicity:

Acetylacetone:

Toxicity to fish flow-through test LC₅₀ - Pimephales promelas (fathead minnow) - 104 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates static test EC₅₀ - Daphnia magna (Water flea) - 25.9 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae static test ErC₅₀ - Pseudokirchneriella subcapitata (green algae) - 83.22 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to fish(Chronic toxicity) flow-through test NOEC - Pimephales promelas (fathead minnow) - 10 mg/l - 34 d (OECD Test Guideline 210)

Toxicity to daphnia and other aquatic invertebrates(Chronic toxicity) semi-static test NOEC - Daphnia magna (Water flea) - 18 mg/l - 21 d (OECD Test Guideline 211)

Dodecanol:

Toxicity to fish flow-through test LC₅₀ - Pimephales promelas (fathead minnow) - 1.01 mg/l - 96 h Remarks: (ECOTOX Database)

Toxicity to algae static test ErC₅₀ - Desmodesmus subspicatus (green algae) - 0.33 mg/l - 72 h Remarks: (ECOTOX Database) (1-Dodecanol)

Persistence and Degradability:

Acetylacetone:

Biodegradability aerobic - Exposure time 28 d Result: 83 - 100 % - Readily biodegradable. (OECD Test Guideline 301C)

Dodecanol:

Biodegradability Result: 58 - 79 % - Readily biodegradable. Remarks: (IUCLID)

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

SECTION13 DISPOSAL CONSIDERATION

Disposal Methods:

Recycle as far as possible. If unable to recycle, it is recommended to use incineration method for disposal under supervision. This product should not be disposed of by discharge into sewers. Return empty containers to the manufacturer or dispose of them in accordance with national and local regulations. Follow the relevant provisions of national and local regulations before disposal. It is recommended to be disposed of by a qualified chemical waste treatment department.

SECTION14 TRANSPORT INFORMATION

RID/ADR (2023 Edition):	Proper Shipping Name: Flammable liquid, n. o. s. (Dimethyl carbonate, Acetylacetone) Hazard Class: 3 UN Number: UN1993 Packing Group: II
IATA DGR (66th Edition):	Proper Shipping Name: Flammable liquid, n. o. s. (Dimethyl carbonate, Acetylacetone) Hazard Class: 3 UN Number: UN1993 Packing Group: II
IMO IMDG CODE (2022 Edition):	Proper Shipping Name: Flammable liquid, n. o. s. (Dimethyl carbonate, Acetylacetone) Hazard Class: 3 UN Number: UN1993 Packing Group: II EmS-No: F-E, S-E Marine pollutant: Yes
Environmental Hazards:	Yes
Special Precautions for User:	No data available.
Transport in bulk according to IMO instruments:	Not applicable

SECTION15 REGULATORY INFORMATION**Montreal Protocol:**

Not listed.

Stockholm Convention:

Not listed.

Rotterdam Convention:

Not listed.

EINECS/ELINCS:

All ingredients in the product are listed.

TSCA:

2-ethoxy-2-methylpropane, Dimethyl carbonate, Acetylacetone, Dodecanol in the product are listed.

IECSC:

QDoptixal octane booster/fuel system cleaner/diesel deep clean

Dimethyl carbonate 30%; Acetylacetone 30%; Alcohols, C12-14 15%; Dodecanol 15%;
2-ethoxy-2-methylpropane 10%

Danger



Highly flammable liquid and vapour.
Harmful if swallowed.
May be harmful in contact with skin.
Harmful if inhaled.
Causes skin irritation.
Causes serious eye irritation.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

[Prevention]:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed. Ground and bond container and receiving equipment.
Use explosion-proof [electrical/ventilating/lighting] equipment. Use non-sparking tools.
Take action to prevent static discharges.
Wear protective gloves/ protective clothing /eye protection /face protection/hearing protection.
Wash hands thoroughly after handling. Do not touch eyes.
Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapours/spray.
Use only outdoors or with adequate ventilation. Avoid release to the environment.

[Response]:

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower]. Wash contaminated clothing before reuse.
In case of fire: Use Water spray, Dry chemical, Carbon dioxide or Suitable foam to extinguish.
IF SWALLOWED: Get medical help. Rinse mouth. If ON SKIN: Get medical help.
If INHALED: Remove person to fresh air and keep comfortable for breathing.
If skin irritation occurs: Get medical help.
If IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical help. Collect spillage.

[Storage]:

Store in a well-ventilated place. Keep cool.

[Disposal]:

Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

Please refer to SDS for detail information

Supplier: Hubei Qingding Energy Technology Co.

Address: Room 09, Office 9/F, Building B, , No. 977 Heping Avenue, Qingshan District, Wuhan City, Hubei Province, 430080, P. R. China

Tel: 86-18627111674

Fax: 86-18627111674

IN CASE OF EMERGENCY: 86-18627111674

