

Technical Data Sheet

Product Name: Fuel System Cleaner

Company Name: Revive, Global Business Group Ltd

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Composition

Chemical characterization (preparation)

Surface tension compounds
Detergents, Dispersants
Synthetic agent combinations
Anti wear agents not classified

Sum of ingredients:
20 - 60 %

Hazardous components

EC-No.	CAS-No.	Chemical name	Quantity	Classification
203-625-9	108-88-3	toluene	15 - 35 %	F, Xn, Xi R11-38-65-67-48/20
265-149-8	64742-47-8	Distillates (petroleum), hydrotreated light ketone	10 - 25 % 10 - 25 %	Xn R65 F, Xi R11-36-66-67
200-661-7	67-63-0	isopropanol, isopropyl alcohol, propan-2-ol	10 - 20 %	F, Xi R11-36-67
265-198-5	37205-87-1	phenole, ethoxylised	1 - 5 %	Xn, Xi, N R22-41-51-53
		Naphtha (petroleum)	1 - 5 %	Xn, Xi, N R10-65-36/38-51-53
		Alcohol propoxilised	1 - 5 %	R52

Full text of each relevant R phrase can be found in heading 16.

Hazard Information

Classification

Symbols : Highly flammable, Harmful, Irritant
R-phrases :
Highly flammable.
Harmful: may cause lung damage if swallowed.
Vapours may cause drowsiness and dizziness.
Irritating to eyes and skin.
Harmful: danger of serious damage to health by prolonged exposure through inhalation.
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

First Aid Measures:

General information

Move victim to fresh air. Instruct person to keep calm and warm.

After inhalation

Move victim to fresh air. Instruct person to keep calm and warm.
In case of difficulties of breathing consult physician.
If victim is at risk of losing consciousness, position and transport on their side.

After contact with skin

Contaminated clothing, including underwear and shoes, must be taken off immediately.
After contact with skin, wash immediately with soap and plenty of water.
Rub in high-fat content cream.

After contact with eyes

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.
Consult physician.

After ingestion

Let water be swallowed in little sips (dilution effect). Consult physician.

Advice to doctor

Warning about danger of aspiration.

Fire Fighting Measures

Suitable extinguishing media

Extinguishing powder. Sand. alcohol resistant foam. Carbon dioxide (CO₂).

Extinguishing media which must not be used for safety reasons

High power water jet.

Special exposure hazards arriving from substance or preparation itself, combustion products, resulting gases

Formation of decomposition products possible.
In case of fire and/or explosion do not breathe fumes.

Special protective equipment for fire-fighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Cool endangered container in case of fire.
Contaminated fire-fighting water must be collected separately.

Accidental release measures:

Personal precautions

In case of fire: Wear self-contained breathing apparatus.
Keep away from sources of ignition. No smoking.

Environmental precautions

Beat down gas/vapours/mist with water spray.
Do not empty into drains or the aquatic environment.
In cases of gas being released or leakage into waters, the ground or the drainage system the appropriate authorities must be informed.

Methods for cleaning up/taking up

Prevent allover extension (e.g. knocking-down or a boom).
Wipe up with absorbent material (eg. cloth, fleece).

Storage & Handling:

Handling

Advice on safe handling

Closed devices. Vapors / aerosols must be cleaned by suction immediately at the place of origin.
Avoid contact with skin and eyes.

Advice on protection against fire and explosion

Keep away from sources of ignition. No smoking. Take precautionary measures against static discharges.

Storage

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Further information on storage conditions

Packaging materials: metal.

Explosion Control/Personal Protection

Exposure limits (EH40)

CAS No.	Substance	ml/m ³	mg/m ³	F/ml	Category	Origin
108-88-3	Toluene	50	191	.	TWA (8 h)	WEL
		150	574		STEL (15 min)	WEL

BAT values (TRGS 903)

CAS No.	Substance	Value	Parameter	Test material	Sampling time
67-63-0	2-Propanol	50 mg/l	Aceton	B	b
108-88-3	Toluol	3,0 mg/l	o-Kresol	U	c,b

8.2 Exposure controls

Protective and hygiene measures

When using do not eat, drink, smoke or sneeze. Wash hands when done working with material; at breaks, lunch, shift changes, etc.

Respiratory protection

Provide for good ventilation, when develop aerosols/mist. In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection

Tested protective gloves are to be worn: Butyl rubber. (EN 374)

Eye protection

Wear tightly sealed safety glasses against possible splashes into the eyes. (EN 166)

Skin protection

Wear suitable solvent-proof protective clothing according to EN 465.

Physical & Chemical Characters

General information

Physical state	liquid
Colour	red
Odour	aromatic

Important health, safety and environmental information

	Test method
Changes in the physical state	
Boiling point	110 - 116 °C
Flash point	-5 °C
Lower explosion limits	0,6 vol. %
Upper explosion limits	12 vol. %
Vapour pressure :	20 hPa
at (20 °C)	
Density (at 20 °C) :	0.78-0.82 g/cm ³
Water solubility :	insoluble
at (20 °C)	
Solubility in other solvents	Organic solvents
<u>Other information</u>	
Ignition temperature	> 200 °C

Stability & Reactivity Data:

Conditions to avoid

Only use the material in places where open light, fire and other flammable sources can be kept away.

Materials to avoid

Oxidizing agents, acid, concentrated. Alkalis (alkalis), concentrated.

Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO₂).

Toxicological Information:

Acute toxicity

LD50(oral, rat) > 2000 mg/Kg.

Corrosive and irritant effects

Following skin contact: Frequently or prolonged contact with skin may cause dermal irritation.

Irritation of eyes: Irritant effect possible.

After ingestion:

Harmful: may cause lung damage if swallowed.

Ecological Information

Ecotoxicity

Distillates(petroleum)
Fish, LC50, 1-10 mg/l
Algae, IC50, 1-10 mg/l

Toluene
Fish, LC50, 1-10 mg/l
Daphnia, EC50, 10-100 mg/l
Algae, IC50, > 100 mg/l
Bacteria, EC50, > 100 mg/l

Propan-2-ol
Fish, LC50(48h), 8970 mg/l
Daphnia, EC50, > 1000 mg/l
Algae, EC50(72h) > 1000mg/l
Bacteria, IC50, 5175 mg/l

Persistence and degradability

Product is biodegradable.

Bioaccumulative potential

Swims on the water. Low potential of bio-accumulation.

Disposal Instruction:

Advice on disposal

Do not dispose with household waste.
Do not empty into drains or the aquatic environment.
Have to add a Special treatment in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.
Arrange about the exact waste code with the local waste disposal expert.

Contaminated packaging

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.
Do not pierce, cut up or weld unclean container. (Danger of explosion.)

Transportation Instruction:

Land transport (ADR/RID)

ADR/RID class	3
Warning plate	
Hazard-no.	33
UN number	1993
Hazard label	3
ADR/RID packing group	II

Description of the goods

Flammable liquid, n.o.s.

Remarks (land transport)

LQ: 3 l

Inland waterways transport

Remarks (inland waterways transport)

No data

Marine transport

IMDG code	3
UN number	1993
EmS	F-E, S-E
IMDG packing group	II
Hazard label	3

Description of the goods

Flammable liquid, n.o.s.

Remarks (marine transport)

LQ: 1 l

Air transport

ICAO/IATA-DGR	3	
UN/ID number	1993	
Hazard label	3	
IATA-packing instructions - Passenger		305
IATA-max. quantity - Passenger		5 l
IATA-packing instructions - Cargo		307
IATA-max. quantity - Cargo		60 l
ICAO packing group	II	
Description of the goods		
Flammable liquid, n.o.s.		
Remarks (air transport)		
LQ: 1 l		

15. Regulation Instructions:

15.1 Labelling

Indication of danger

F - Highly flammable; Xn - Harmful



F - Highly flammable

Xn - Harmful

Hazardous component(s) to be indicated on label

toluene
Distillates (petroleum), hydrotreated light, Kerosine - unspecified

R phrases

- 11 Highly flammable.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.
- 36/38 Irritating to eyes and skin.
- 48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases

- 02 Keep out of the reach of children.
- 46 If swallowed, seek medical advice immediately and show this container or label.

15.2 National regulations

Water contaminating class 2 - water contaminating

Other Information

List of relevant R phrases

10	Flammable.
11	Highly flammable.
22	Harmful if swallowed.
36	Irritating to eyes.
38	Irritating to skin.
41	Risk of serious damage to eyes.
51	Toxic to aquatic organisms.
52	Harmful to aquatic organisms.
53	May cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.
67	Vapours may cause drowsiness and dizziness.
36/38	Irritating to eyes and skin.
48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Other data

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.