

Technical Data Sheet

Product Name: Engine Flush

Company Name: Revive, Global Business Group Ltd

Email Address: info@reviveproducts.de

1. Composition

Mixtures:

Chemical characterization

Anti Friction Components
 Detergents, Dispersants
 Synthetic agent combinations
 corrosion preventing agent

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
919-164-8	Distillates (petroleum, gasoline), hydrotreated light	95 - 100 %
64742-82-1	Xn - Harmful R52-53-65-66	
	Asp. Tox. 1, Aquatic Chronic 3; H304 H412	
287-477-0	Chlorparaffines C14-C28	1 - 5 %
85535-85-9	N - Dangerous for the environment R50-53-64-66	
	Lact., Aquatic Acute 1, Aquatic Chronic 1; H362 H400 H410	

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2. Hazard Information

2.1. Classification of the substance or mixture

Indications of danger: Harmful

R phrases:

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Harmful: may cause lung damage if swallowed.

Repeated exposure may cause skin dryness or cracking.

2.2. Label elements

Danger symbols:

Xn - Harmful



Xn - Harmful

Hazardous components which must be listed on the label

Distillates (petroleum, gasoline), hydrotreated light

R phrases

52/53 Harmful to aquatic organisms, 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.

S phrases

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

4. First Aid Measures:

4.1. Description of first aid measures

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

After contact with skin

Take off immediately all contaminated clothing, including underwear and shoes .

Subsequently wash again with: Water and soap.

Seek medical attention if problems persist.

After contact with eyes

Remove contact lenses.

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

ingestion of absorption substances: Consult physician.

After ingestion

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

Do not induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

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.

4.3. Indication of any immediate medical attention and special treatment needed

Warning about danger of aspiration.

5. Fire Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media

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

Extinguishing media which must not be used for safety reasons

High power water jet.

5.2. Special hazards arising from the substance or mixture

Formation of decomposition products possible.

In case of fire and/or explosion do not breathe fumes.

5.3. Advice for firefighters

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

Additional information

Cool endangered container in case of fire.

Beat down gas/vapours/mist with water spray.

Contaminated fire-fighting water must be collected separately.

6. Accidental release measures:

6.1. Personal precautions, protective equipment and emergency procedures

Wear a self-contained breathing apparatus and chemical resistant suit.

Keep away from sources of ignition. No smoking.

Do not breathe gas/fumes/vapour/spray.

6.2. Environmental precautions

Beat down gas/vapours/mist with water spray.

Do not empty into drains or the aquatic environment.

In case of gas being released or leakage into waters, ground or the drainage system, the appropriate authorities must be informed.

6.3. Methods and material for containment and cleaning up

Prevent spreading of spillages (e.g. by oil barrier).

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

7. Storage & Handling:

7.1. Precautions for safe handling

Advice on safe handling

Material must only be handled in closed installations or systems. Vapours / aerosols must be extracted by suction immediately at point 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.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.
Do not store at temperatures over: 50 °C
Take precautionary measures against static discharges.

8. Explosion Control/Personal Protection

8.1. Control parameters

8.2. Exposure controls

Protective and hygiene measures

Take off immediately all contaminated clothing
Do not breathe gas/fumes/vapour/spray.
Avoid contact with skin and eyes.
Keep away from food, drink and animal feeding stuffs.
When using do not eat, drink or smoke.
"Wash hands when done working with material; at breaks, lunch, shift changes, etc."

Respiratory protection

In case of accumulation of fumes/aerosols, provide adequate ventilation.
In case of fire: Wear self-contained breathing apparatus.

Hand protection

Tested protective gloves are to be worn: NBR (Nitrile rubber). FKM (Fluoroelastomer (Viton)). (EN374)

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.

9. Information on Physical & Chemical Characters

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	transparent
Odour:	aromatic

Test method

Changes in the physical state

Boiling point:	180 - 220 °C
Flash point:	65 °C
Lower explosion limits:	
Upper explosion limits:	
Ignition temperature:	> 200 °C
Vapour pressure:	20 hPa
(at 20 °C)	
Density (at 20 °C):	0.82 - 0.92 g/cm ³
Water solubility:	insoluble
(at 20 °C)	

Solubility in other solvents

Organic solvents

10. Stability & Reactivity Data:

10.4. Conditions to avoid

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

No decomposition when used as intended.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological Information:

Acute toxicity

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
64742-82-1	Distillates (petroleum, gasoline), hydrotreated light				
	oral	LD50 mg/kg	>5000	rat.	
	dermal	LD50 mg/kg	>2920	Rabbit.	
85535-85-9	Chlorparaffines C14-C28				
	oral	LD50	4000 mg/kg	rat.	
	dermal	LD50	4000 mg/kg	rat.	
	inhalative (1 h) vapour	LC50	48170 mg/l	rat.	

Irritation and corrosivity

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

Irritation of eyes: Irritant effect possible.

Sensitising effects

no danger of sensitization.

12. Ecological Information

12.1. Toxicity

CAS No	Chemical name	Method	Dose	h	Species	Source
	Aquatic toxicity					
64742-82-1	Distillates (petroleum, gasoline), hydrotreated light					
	Acute fish toxicity	LC50	10-100 mg/l	96	Oncorhynchus mykiss	
	Acute algae toxicity	ErC50	50-100 mg/l	72	Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	10-22 mg/l	48	Daphnia magna	
85535-85-9	Chlorparaffines C14-C28					
	Acute algae toxicity	ErC50	3,2 mg/l	96	Algae	

12.3. Bioaccumulative potential

Low potential of bio-accumulation.

Further information

Do not empty into drains or the aquatic environment.

13. Disposal Instruction:

13.1. Waste treatment methods

Advice on disposal

Do not dispose with household waste.

Do not empty into drains or the aquatic environment.

Arrange about the exact waste code with the local waste disposal expert.

Have to add a Special treatment in compliance with official regulations in contact with approved waste disposal companies and with authorities in charge.

Contaminated packaging

Container must be completely emptied.

Do not pierce, cut up or weld unclean container. (Explosion hazard.)

14. Transportation Instruction:

Land transport (ADR/RID)

Other applicable information (land transport)

Not a hazardous material with respect to transportation regulations.

Inland waterways transport (ADN)

Other applicable information (inland waterways transport)

Not a hazardous material with respect to transportation regulations.

Marine transport (IMDG)

Other applicable information (marine transport)

Not a hazardous material with respect to transportation regulations.

Air transport (ICAO)

Other applicable information (air transport)

Not a hazardous material with respect to transportation regulations.

14.5. Environmental hazards

Dangerous for the environment: no

15. Regulation Instructions:

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Additional information

Contains:
> 30% hydrocarbons, aliphatic.
< 5 %

National regulatory information

Water contaminating class (D): 2 - water contaminating

Other Information

Full text of R phrases referred to under Sections 2 and 3

50	Very toxic to aquatic organisms.
52	Harmful to aquatic organisms.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
53	May cause long-term adverse effects in the aquatic environment.
64	May cause harm to breastfed babies.
65	Harmful: may cause lung damage if swallowed.
66	Repeated exposure may cause skin dryness or cracking.

Full text of H statements referred to under Sections 2 and 3

H304	May be fatal if swallowed and enters airways.
H362	May cause harm to breast-fed children.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Further Information

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.