



SAFETY DATA SHEET

Prepared according to Annex II of EC Regulation 1907/2006

Motor Starter

01. Identification of the substance/preparation and of the company/undertaking

Product name

Motor Starter

Use of the substance / preparation

engine fuel

Manufacturer/Supplier

SCT-Vertriebs GmbH

Wedel/Hamburg

Street/P.O.Box

Feldstrasse 154

Country code/Postal code/Town/City

22880 Wedel

Contact

email: info@sct-germany.de

Emergency information

+49 4103 1211 0 (08:00 - 17:00 h)

02. Composition/information on ingredients

To People

See point 11 and 15.

Preparation is classified as hazardous in the sense of directive 1999/45/EC.

Product is extremely flammable. Danger of busting (explosion) when heated.

When using: development of explosive vapour/air mixture possible.

Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness

Ingestion:

Product is dangerous to health.

To the environment

See point 12.

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

03. Hazard identification

Chemical			
content%	Symbol	R-phrases	EINECS, ELINCS
	Registration number(ECHA)	Classification categories	
Naptha (petroleum), hydrotreated light			
10-<15	F/Xn/Xi/N	11-38-51-53-65-67	265-151-9
Diethylether			
30-40	F+/Xn	12-19-22-66-67	200-467-2

For complete wording of the R-phrases, refer to point 16.

04. First-aid measures

4.1 Inhalation

Remove person from danger area. Supply with fresh air and consult doctor according to symptoms.

4.2 Eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

4.3 Skin contact

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.) consult doctor.

4.4 Ingestion

Call doctor immediately - have Data Sheet available. Do not induce vomiting

4.5 Special resources necessary for first aid

.n.c.



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05. Fire-fighting measures

- 5.1 Suitable extinguishing media
Co2; Extinguishing powder; Foam; Cool container at risk with water
- 5.2 Extinguishing media which shall not be used for safety reasons
High volume water jet
- 5.3 Special exposure hazards arising from the substance or preparation itself,
combustion products, resulting gases
In case of fire the following can develop:
Oxides of carbon
Hydrocarbons
Toxic pyrolysis products
Danger of explosion by prolonged heating
Explosive vapour/air mixture
In case of spreading near the ground flashback to distance sources of ignition is possible.
- 5.4 Special protective equipment for fire-fighters
Protective respirator with independent air supply
- 5.5 Further information
Dispose of contaminated extinction water according to official regulations

06. Accidental release measures

- 6.1 Personal precautions
Remove possible causes of ignition - do not smoke. Ensure sufficient supply of air. Avoid inhalation and contact with eyes or skin.
- 6.2 Environmental precautions
Prevent penetration into drains, cellars, working pits or other places in which accumulation could be hazardous. Prevent surface and ground-water infiltration, as well as ground penetration.
- 6.3 Methods for cleaning up
If spray or gas escapes, ensure ample fresh air is available.
Active substance:
Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

07. Handling and storage

- 7.1 Handling
Tips for safe handling:
See point 6.1
Ensure good ventilation. Keep away from sources of ignition - Do not smoke. Take measures against electrostatic charging, if appropriate. Do not use on hot surfaces. Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Wash hands before breaks and at end of work. Observe directions on label and instructions for use. Use working methods according to operating instructions.
- 7.2 Storage
Requirements for storage rooms and containers:
Not to be stored in gangways or stair wells. Store product closed and only in original packing. Observe special regulations for aerosols.
Special storage conditions:
See point 10
Keep protected from direct sunlight and temperatures over 50°C. Store in a well ventilated place.
Observe special storage conditions (in Germany, e.g., in accordance with the regulations in the „Betriebssicherheitsverordnung“).

08. Exposure controls/personal protection

Chemical Name	Naphtha (petroleum), hydrotreated light		content%: 10-15
WEL-TWA: 800 mg/m ³ (WEL), 1200 mg/m ³ (AGW)	WEL-STEL: 2(II) (AGW)	---	
WEL-TWA	Other informations: ---		

Chemical Name	Diethyl ether		content%: 30-40
WEL-TWA: 100 ppm (310 mg/m ³) (WEL), 100ppm (308 mg/m ³) (EC)	WEL-STEL: 200 ppm (620 mg/m ³) (WEL), 200 ppm (616 mg/m ³) (EC)	---	
BMGV: ---	Other informations: ---		



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Chemical Name	Propane	content%:
WEL-TWA: 1000 ppm (ACGIH)	WEL-STEL: ---	---
BMGV: ---	Other informations: ---	

Chemical Name	Butane	content%:
WEL-TWA: 600 ppm (1450 mg/m ³)	WEL-STEL: 750 ppm (1810 mg/m ³)	---
BMGV: ---	Other informations: ---	

Chemical Name	Isobutane	content%:
WEL-TWA: 1000 ppm (ACGIH)	WEL-STEL: ---	---
BMGV: ---	Other informations: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW

"Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage. ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction. If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

Respiratory protection: Normally not necessary

If OES or MEL is exceeded. Gas mask filter AX (EN 14387)

At high concentrations:

Respiratory protection appliance (insulation device) (e.g. EN 137 or EN 138)

Hand protection: Protective nitrile gloves (EN 374)

Minimum layer thickness in mm: 0,35

Permeation time (penetration time) in minutes: 30

Protective hand cream recommended:

Eye protection: Tight fitting protective goggles with side protection (EN 166)

Skin protection: Protective working garments (e.g. safety shoes EN 344, long sleeved protective working garments)

8.2.2 Environmental exposure control

n.a.v.

09. Physical and chemical properties

Physical state:	Aerosol
Substance:	Liquid
Colour:	Colourless
Odour:	Ether
pH-value undiluted:	n.av.
Boiling point/boiling range (°C):	n.av.
Melting point/melting range (°C):	n.av.
Flash point (°C):	n.a.
Ignition temperature:	>150°C
Oxidising properties:	No
Minimum limit of explosion:	0,6 Vol%
Maximum limit of explosion:	Not detected
Density (g/ml):	0,61
Water solubility:	partially
Viscosity:	n.a.

10. Stability and reactivity

Conditions to avoid:

See point 7 Stable when handled and stored correctly. Heating, open flame, ignition sources Pressure increase will result in danger of bursting

Materials to avoid:

See point 7

Avoid contact with oxidizing agents.

Hazardous decompositions products

See point 5.3

No composition when used as directed



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11. Toxicological information

Acute toxicity and immediate effects	
Ingestion, LD50 rat ora (mg/kg):	See point 15
Inhalation, LC50 rat inhal. (mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	See point 15
Eye contact:	n.av.
Delayed and chronic effects	
Sensitization:	n.c.
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	Possible
Further information	
Classification according to calculation procedure. The following may occur:	
Irritation of the respiratory tract	
Coughing, Headaches	
Effects/damages the central nervous system	
With long-term contact:	
Dermatitis (skin inflammation)	
Drying of the skin.	

12. Ecological information

Water hazard class (Germany):	1
Self classification:	Yes (VwVwS)
Persistence and degradability:	
- Readily biodegradable *	
- Photochemical decomposition in the atmosphere. *	
Behaviour in sewage plants:	According to the recipe, contains no AOX.
Aquatic toxicity:	n.av.
Ecological toxicity:	n.av.
Accumulation:	Concentration in organisms possible. *
	* Naptha (petroleum), hydrotreated light

13. Disposal considerations

13.1. for the material / preparation / residue	
EC disposal code no.:	
The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC) 16 05 04 gases in pressure containers (including halons) containing dangerous substances Recommendation:	
Pay attention to local and national official regulations	
E.g. suitable incineration plant.	
E.g. dispose at suitable refuse site	
13.2. for contaminated packing material	
See point 13.1	
Pay attention to local and national official regulations	
Recommendation:	
Do not perforate, cut up or weld uncleaned container.	

14. Transport information

General statements	
UN-Number:	1950
Road/Rail-transport (ADR/RID)	
Class/packing group:	UN 1950 AEROSOLS
Classification code:	5F
LQ:	2
Transport by sea	
MDG-code:	2.1/- (class/packing group)
EmS:	F-D, S-U
Marine Pollutant:	n.a
AEROSOLS	
Transport by air	
ATA	2.1/-/- (class/secondary danger/packing group)
Aerosols, flammable	
Additional information	
Danger code and packing code on request	

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15. Regulatory information

Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols: F+/Xn

Indications of danger:

Extremely flammable

Harmful

R-phrases:

22 Harmful if swallowed.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

66 Repeated exposure may cause skin dryness or cracking.

67 Vapours may cause drowsiness and dizziness.

S-phrases:

23.f Do not breathe vapour/spray.

24/25 Avoid contact with skin and eyes.

35 This material and its container must be disposed of in a safe way.

46 If swallowed, seek medical advice immediately and show this container or label.

51 Use only in well-ventilated areas.

Additions:

Pressurized container:



protect from sunlight and do not expose to temperatures exceeding 50°C.

Do not pierce or burn, even after use.

Do not spray on a naked flame or any incandescent material.

Keep away from sources of ignition - No smoking.

Keep out of the reach of children.

Without adequate ventilation, formation of explosive mixtures may be possible.

Diethylether

Observe restrictions:

Yes

Observe youth employment law (German regulation).

Observe restrictive guidelines 76/769/EEC, 1999/51/EC, 1999/77/EC

Observe law on protection of expectant mothers (German regulation).

VOC 1999/13/EC 100% w/w

16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany):

2B

Revised points:

7,15

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 3).

11 Highly flammable.

38 Irritating to skin

51 Toxic to aquatic organisms

53 May cause long-term adverse effects in the aquatic environment

65 Harmful: may cause lung damage if swallowed

65 Also harmful: may cause lung damage if swallowed

67 Vapours may cause drowsiness and dizziness.

12 Extremely flammable.

19 May form explosive peroxides.

22 Harmful if swallowed

22 Also harmful if swallowed

66 Repeated exposure may cause skin dryness or cracking

Legend

n.ä. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted

average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV =

Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer

Grenzwert" (biological limit value, Germany) VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the

necessary safety precautions - they are not meant to guarantee definite

characteristics - but they are based on our present up-to-date knowledge.