AQUAMARINE CHEMICALS

PRODUCT SAFETY DATA SHEET

(according to Regulation (EC) No. 453/2010)

1. Identification of the substance/mixture & of the company/undertaking

1.1 Product Identifier

Trade Name : **CARBON REMOVER**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Degreasing Solvent for the removal of carbon deposits

Recommended restrictions : At this time we do not have information on restrictions on use. They will be included when available.

1.3 Details of the supplier of the safety data sheet

Company : Aquamarine Chemicals, Unit 2 Duddage Manor Business Park, Brockeridge Road, Twyning, GL20 6BY. Tel: 01684 290077 Fax: 01684 290608

1.4 Emergency telephone number

Emergency phone number : (Office hours only): 01684 290077

2. Hazards Identification.

2.1 Classification of the substance or mixture

Classification according to EU Directive 1999/45/EC

Hazard Symbol/Category of danger	Risk Phrases
Harmful	R40
Dangerous for the environment	R51/53

Classification according to Regulation (EC) No 1272/2008

Refer to Section 16.

For the wording of the listed R phrases or H statements, refer to section 16.

2.2 Label elements

Labelling according to EU Directive 1999/45/EC

Hazard Symbol:

Classification: Xn Harmful, N Dangerous for the environment

Risk Phrases:

R40:	Limited evidence of a carcinogenic effect
R51/53:	Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

Safety Phrases:

S2:	Keep out of the reach of children
S23:	Do not breathe vapour
S24/25:	Avoid contact with skin and eyes
S36/37:	Wear suitable protective clothing and gloves

Labelling according to Regulation (EC) No 1272/2008

Refer to Section 16.

Hazardous components which must be listed on the label
Contains Petroleum Distillate

2.3 Other hazards
None known

3. Composition/Information on Ingredients.

3.2 Mixtures

Substances presenting a health or environmental hazard according to Directive 67/548/EEC or Regulation EC1272/2008

Ingredient Name	Identifiers	Classification 67/548/EEC	Classification EC/1272/2008	Concentration Range
Solvent Naphtha (heavy)	EC – 265-198-5 CAS – 64742-94-5	Harmful R65 Harmful R66 Dangerous to the Environment R52/53	Asp. Tox. 1 H304 EUH 066 Aquatic Chronic 3 H412	50-60%
Tetrachlorethylene	EC 204-825-9 CAS 127-18-4	Harmful R40 Dangerous to the environment R51/53	Carc. 2 H351 Aq. Chron. 2 H411	30-40%

Additional information: Naptha 265-150-3 contains less than 0.1% Benzene. For the wording of the listed risk phrases and hazard statements, refer to section 16.

4. First Aid Measures.

4.1 Description of first aid measures

Eye Contact: Flush with clean water for 15minutes. If irritation persists, obtain medical attention.

Skin Contact: Wash off with soap and water. The application of skin reconditioning (emollient) cream can be beneficial.

Inhalation: Remove to fresh air. If symptoms persist, seek medical advice.

Ingestion: Water to drink and rinse may be beneficial**. Aspiration Hazard.** May cause rapid absorption via lungs, resulting in injury to other body systems. Do not induce vomiting without medical advice.

4.2 Most important symptoms and effects, both acute and delayed
No further information available

4.3 Indication of immediate medical attention and special treatment needed
Treatment: Treat symptomatically

5. Fire Fighting Measures:

5.1 Extinguishing Media
Suitable Extinguishing Media : Foam, Dry Powder, Co2, Sand, Earth, Fine Water Spray suitable.

Unsuitable Extinguishing Media :

5.2 Special hazards arising from the substance or mixture
Not classed as flammable but inherently combustible. Spray containers adjacent to fires to keep cool and avoid bursting. Product may decompose if involved in a fire, releasing Hydrogen Chloride and small amounts of Phosgene and Chlorine.

5.3 Advice for fire fighters
Wear self contained breathing apparatus and protective clothing. Cool closed containers exposed to the fire with water spray. Prevent water run-off from discharging into drains.

6. Accidental Release Measures.

6.1 Personal precautions, protective equipment and emergency procedures
Remove ignition sources. Wear protective equipment. Keep unprotected persons away. Use protective clothing, chemical eye goggles and PVC or rubber gloves. Avoid contact with skin and eyes.

6.2 Environmental precautions
Prevent from spreading (e.g. by dusting a ring of chemical binder). As the product is hazardous for the aquatic environment, it must be prevented from reaching surface water. Inform authorities in case of contamination of water or sewage system. Do not allow product to soak into drains or water courses.

6.3 Methods and materials for containment and cleaning up
Soak liquid in absorbent material and collect solids in a container. Wash down floor area as spillages can be slippery**.** Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent. Use only in well ventilated areas.

6.4 Reference to other sections
For personal protection refer to section 8

7. Handling and Storage.

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Observe good standards of industrial hygiene. Keep in tightly closed containers. Take note of emission threshold.

7.2 Conditions for safe storage, including any incompatibilities
Keep containers tightly closed. Store between 10-35ºC. Protect from frost. Store in mild steel, stainless steel or polyethylene containers.

7.3 Specific end uses
To be used as a degreasing solvent.

8. Exposure Controls/Personal Protection.

8.1 Control parameters
Exposure limit values:

Ingredient Name			8hr TWA	15min STEL
Naphtha	WEL		5mg/m3	10mg/m3
Tetrachloroethylene		WEL	50ppm	100ppm

8.2 Exposure controls

Respiratory Protection:	Avoid prolonged contact with airborne mists, generated by atomising systems. Avoid breathing vapours.
Hand:	PVC or rubber gloves are recommended.
Eyes:	Safety eye goggles should be worn.
Skin:	Use protective clothing. Remove contaminated clothing and wash with soap and water.

8.2.3 Environmental exposure controls
Dispose only in accordance with Local Authority regulations, via authorised waste disposal agent.

9. Physical and Chemical Properties.

9.1 Information on basic physical and chemical properties

Appearance:	Pale Amber Fluid
Odour:	Chlorinated Solvent
Odour Threshold:	Not determined
pH Neat:	Not applicable
Freezing Point:	<0˚c
Initial Boiling Point & Boiling Range:	121-265ºC

Flash Point:	Will not sustain flame
Evaporation rate:	Not determined
Flammability:	Not Flammable
Upper/Lower Flammability Limits:	Not determined
Vapour Pressure:	Not determined
Vapour Density:	(Water=100) >1
Relative Density:	1.080 typical @ 20°c
Solubility:	Soluble in water Soluble in many organics
Partition Coefficient (Oct/Water):	Not determined
Auto Ignition Temperature:	400ºC
Decomposition Temperature:	Not determined
Viscosity @ 20ºC:	2.6c/st
Explosive Properties:	Not determined
Oxidising Properties:	Not applicable

9.2 Other Information
No other information available.

10. Stability and Reactivity.

10.1 Reactivity
No information available

10.2 Chemical Stability
No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions
No information available.

10.4 Conditions to Avoid:
Avoid naked flames, hot surfaces and other high temperature sources.

10.5 Incompatible materials
Strong oxidising agents.

10.6 Hazardous decomposition products
Combustion can produce a variety of compounds including Hydrogen Chloride and small amounts of Phosgene and Chlorine, oxides of carbon, water vapour and unidentified organic and inorganic compounds, some of which may be toxic.

11. Toxicological Information.

11.1 Information on toxicological effects

Eyes:	Contact is likely to cause moderate irritation and stinging.
Skin:	Brief or occasional contact is unlikely to cause any significant reaction. Prolonged or repeated contact with the product may lead to de-fatting of the skin and/or slight irritation.
Inhalation:	Excessive exposure to mists caused by atomising systems may cause irritation to eyes and respiratory tract, possible inflammation of the lungs. May cause headaches and dizziness.
Ingestion:	Aspiration Hazard. May cause lung damage if material gets into lungs after swallowing, breathing vapour/spray or vomiting swallowed material. Swallowing of small amounts is not likely to cause serious discomfort. If swallowed in larger quantities, may cause vomiting and diarrhoea.

12. Ecological Information.

12.1 Toxicity

Eco-toxicity:	Solvent Naphtha	LC50 96hrs (fish)	2 mg/l

12.2 Persistence and Degradability:
Inherently bio-degradable according to OECD guidelines.

12.3 Bio-accumulative potential
Not expected to bio-accumulate

12.4 Mobility in soil
Should not be deposited where it can effect ground or surface waters.

12.5 Results of PBT and vPvB assessment
No information

12.6 Other adverse effects
Not known.

13. Disposal Recommendations.

13.1 Waste treatment methods
Product should be disposed of via an authorised waste disposal contractor in accordance with all local and national regulations. Dispose of empty containers in accordance with local and national regulations. Advice can be obtained from the Waste Regulation Authority whether special waste regulations apply to this product.

14. Transport Information.

14.1 UN number
2810

14.2 UN Proper shipping name
ADR Toxic Liquid, Organic, NOS, Contains Dichloromethane and Methanol
IMDG Toxic Liquid, Organic, NOS, Contains Dichloromethane and Methanol

14.3 Transport hazard classes

ADR Class	:	T1
Hazard ID No.	:	60
Classification code	:	6.1
Tunnel restriction code	:	E
Labels	:	Class 6.1

IMDG Class	:	6.1
EMS	:	6.1-02
Labels	:	Class 6.1

14.4 Packing group

ADR	:	III
IMDG	:	III

14.5 Environmental hazards

Labelling according to 5.2.1.8 ADR	:	Yes
Labelling according to 5.2.1.6.3 IMDG	:	Yes
Classified as 'P' Marine pollutant according to 2.10 IMDG	:	Yes

14.6 Special precautions for user
Not applicable

14.7 Transport in bulk according to Annex II of Marpol 73/78 and the IBC code
Not applicable

15. Regulatory Information.

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

Safety data sheet according to Regulation (EC) No. 453/2010.

This mixture has been classified and labelled in accordance with 1999/45/EC. Classification in accordance with EC 1272/2008 is derived from Annex VII in accordance with Article 61 paragraph 5.

1907/2006/EC - Registration, Evaluation, Authorisation and Restriction of Chemicals and amendments.

98/24/EC - Protection of workers from the risk related to chemical agents at work. Refer to Directive for details of requirements.

1272/2008 - Classification, labelling and packaging of substances and mixtures and amendments.

Refer to the relevant EU/national regulation for details of any actions or restrictions required by the above Regulation(s)/Directive(s).

15.2 Chemical safety assessment
No information at the present time.

16. Other Information.

Classification according to Regulation (EC) No 1272/2008

Hazard Class	Hazard Category	Hazard Statements
Carcinogenicity	Category 2	H351
Hazardous to the aquatic environment - Chronic	Category 2	H411

Labelling according to Regulation (EC) No 1272/2008

Hazard Symbols:

Signal word: **Warning**

Hazard Statements:		
	H351	Suspected of causing cancer
	H411	Toxic to aquatic life with long lasting effects

Precautionary Statements:

Prevention:

P102	:	Keep out of the reach of children
P273		Avoid release to the environment
P260		Do not breathe vapours
P262		Do not get in eyes, on skin or on clothing
P282		Use personal protective equipment as required

Response:

Hazardous components which must be listed on the label
Contains Petroleum Distillate

Full text of R-phrases referred to under sections 2 & 3

R40:	Limited evidence of a carcinogenic effect
R51/53:	Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.
R52/53:	Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.
R65:	Harmful: may cause lung damage if swallowed
R66:	Repeated exposure may cause skin dryness or cracking

Full text of H-Statements referred to under sections 2 & 3

H304	May be fatal if swallowed and enters airways
H351	Suspected of causing cancer
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
EUH066	Repeated exposure may cause skin dryness or cracking.

Training Advice
Users should be trained in good industrial hygiene practise.

Department issuing data specification sheet: Health and Safety Department

This data sheet does not constitute an assessment of the workplace risks as required under the provisions of the Health & Safety at Work act and the Control of Substances Hazardous to Health (COSHH).

Do not mix with other chemicals.

Further Information
The information supplied above is based upon the present state of our knowledge of the product at the time of publication. It is given in good faith and no warranty is implied with respect to the specification or quality of the product. The user must satisfy themselves that the product is entirely suitable for his purpose.