Compilation Date: June 2011
Revision No: 2. Supersedes: Version 1, dated February 2011

Section1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product identifier

Product name: Q20 AEROSOL
Product code: Aerosol
Synonyms: Q20-BULK

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

Uses: Moisture repellant
Not to be used for: None specified

1.3. Details of the supplier of the safety data sheet

Company name: Q Oil Europe Ltd,
Unit 2, Crown Point Ind Est Sth,
King Street,
Denton,
Manchester, M34 6HE
United Kingdom

1.4. Emergency telephone number

Emergency tel: +44 (0) 161 484 6505 (Office Hours Only)

Section 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification under CLP: Flammable Aerosol Category 1 – H222, Carcinogen Category 2 – H351, Aquatic Chronic Category 2 – H411
For full wording of Hazard statements see Section 16

Classification under DPD: Flammable – R12, Carcinogen Category 3 – R40, Hazardous to the Environment – R51/53
For full wording of Risk phrases see Section 16

2.2. Label elements

Contains: Perchloroethylene

Signal words: Danger

Cont'd

Section 2: Hazards Identification continued

2.2. Label elements cont'd

Precautionary statements:

P102 Keep out of reach of children
P270 Do not eat, drink or smoke when using this product
P260 Do not breathe spray
P273 Avoid release to the environment
P280 Wear protective gloves / protective clothing
P309+P313 If exposed or if you feel unwell: Get medical attention

Special labelling for aerosols:

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.

2.3. Other hazards

May give rise to mild transient eye irritation.
Does not fulfil the criteria for classification as PBT or vPvB.

Section 3: Composition/Information on Ingredients

3.2. Mixtures

Hazardous ingredients: Under Classification, Labelling and Packaging Regulations EC1272/2008 (CLP)

Ingredient	CAS/EC Number	REACH Registration No.	%	CLP Hazard Category	H-Statements
Perchloroethylene	127-18-4/ 204-825-9	Not yet available	45 - 65	Carc. 2 Aquatic Chronic 2	H351 H411
Odourless Kerosene	64742-47-8/ 265-149-8	Not yet available	20 – 30	Aspiration Toxicity Cat 1	H304
Propane+Butane gas Propellant	106-97-9 + 74-98-6/ 200-827-9 + 203-448-7	Not yet available	40 – 60 by volume per can	Flammable Gas 1	H220

For full wording of H Statements see Section 16.

Under Dangerous: Substances Directive 92/32/EEC (DSD)

Ingredient	CAS/EC Number	REACH Registration No.	%	Symbol	Risk Phrases
Perchloroethylene	127-18-4/ 204-825-9	Not yet available	45 - 65	Xn, N	R40-51/53
Odourless Kerosene	64742-47-8/ 265-149-8	Not yet available	20 – 30	Xn	R65
Propane+Butane gas Propellant	106-97-9 + 74-98-6/ 200-827-9 + 203-448-7	Not yet available	40 – 60 by volume per can	F+	R12

For full wording of Risk phrases see Section 16.

Cont'd

Section 4: First Aid Measures

4.1. Description of first aid measures

Inhalation: Remove patient to fresh air, allow to rest and keep warm. If victim shows signs of breathing difficulty or vomiting has occurred obtain medical attention urgently.

Skin contact: Remove contaminated clothing and wash before reuse. Wash skin with soap and water for several minutes. Get medical attention if symptoms develop.

Eye contact: Flush immediately with plenty of water for at least 15 minutes, keeping eyelids open. Get medical attention if symptoms persist.

Ingestion: DO NOT induce vomiting! Rinse mouth out but do not give anything to drink. Get medical attention. Observe patient in case abdominal pain develops or vomiting starts. Try to keep patient conscious and try to make certain that patient does not aspirate vomit.

Personal precautions: Ensure that those giving first aid treatment do not get contaminated by product spills, etc. Wear suitable protective clothing, gloves and eye protection. See also Section 8 for details.

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

If inhaled may cause anaesthesia, headache, dizziness, nausea and upper respiratory tract irritation. May cause drying of skin and irritation. May cause irritation, tears and redness in contact with the eyes. If swallowed may cause irritation, nausea, vomiting and diarrhoea.

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

None other than above.

Section 5: Fire Fighting Measures

5.1. Extinguishing media

Suitable: Foam, carbon dioxide or dry powder.

Not to be used: Water.

5.2. Special hazards arising from the substance or mixture

None other than those expected from surrounding materials. Exposure to heat may cause bursting of the aerosol containers.

5.3. Advice for fire fighters As required for surrounding fire.

Prevent fire fighting water entering watercourses or ground-water.

Cont'd

Section 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing and gloves.

6.2. Environmental precautions

Prevent from entering sewers or the immediate environment. In case of large spill inform local police, local authority, water company, National Rivers Authority and/or fire brigade as appropriate.

6.3. Methods and material for containment and cleaning up

On soil:

Small Scale Spillages: In the unlikely event of spillages from aerosol cans, place cans in bags or open pail until pressure has dissipated. Eliminate all sources of ignition. Aerosol cans must not be punctured or incinerated but disposed of in land fill or in accordance with local regulations. Do not wash Q20 contamination into drains and waterways. Instead wipe affected areas with white spirit or turpentine substitute and allow to dry. When dry, wash affected areas with soapy water to remove any remnants of Q20. If white spirit cannot be applied, layer with sawdust or absorbent material. Allow to dry and then sweep/shovel into refuse bins and dispose of via appropriate waste disposal methods.

Large Scale Spillages: In the event of large roadside transport spillages resulting from collision or overturned vehicles, other vehicles must be kept away from contaminated roads or other surfaces. Affected areas should be covered in layers of sawdust or similarly absorbent material. Do not wash into drains, waterways or soil courses. Later remove absorbent material to waste disposal site.

On water: Collect cans, inform relevant authorities.

6.4. Reference to other sections

See Section 8 for details of protective equipment.
See Section 13 for details of disposal.

Section 7: Handling and Storage

7.1. Precautions for safe handling

Use only in accordance with the instructions printed on the container.
Use personal protective equipment, see Section 8. Keep away from children. Avoid contact with skin and eyes. Do not ingest. Do not inhale spray or vapours. Do not smoke whilst handling this material. Do not eat, drink or smoke whilst using this product. Avoid sources of ignition. Handle and open containers carefully. Use only in well ventilated area. Vapours are heavier than air so may spread along floors to a remote source of ignition.

7.2. Conditions for safe storage, including any incompatibilities

Store below 50°C in a dry place out of direct sunlight.
Keep container closed when not in use.

7.3. Specific end use(s)

Moisture repellant

Cont'd

Section 8: Exposure controls/personal protection

8.1. Control parameters

WEL Perchloroethylene (EH40 UK): 50ppm (345mg/m3) 8hr TWA
100ppm (689mg/m3) 15min STEL

Monitoring procedures: None specified

8.2. Exposure Controls

Recommended engineering controls: Ensure good ventilation. Arrange for eye wash possibility.

Personal protection: Always check applicability with your supplier of protective equipment.

Respiratory protection: None required under normal use conditions. If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators to EN 141 full face, or EN 405 half-mask fitted with Type A filter.

Skin protection: Laboratory coat or overalls.

Eye protection: None required under normal circumstances, but use goggles when splash hazards exist.

Hand protection: Wear chemical resistant gloves to EN374. Butyl rubber or PVC gloves may be suitable for prolonged or repeated contact.
(Break-through times can vary depending on thickness, use and source. Change gloves regularly)

General hygiene: Do not eat, drink, or smoke while using this product. Immediately take off any contaminated clothing and launder before re-use. Wash hands and / or face before breaks and at the end of the shift.

Section 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	Aerosol pale straw coloured liquid contents
Odour:	Mild oily solvent odour
Odour Threshold Value:	Not determined
pH (concentrated product):	Not applicable – organic liquid
Melting point (ºC):	Not determined
Boiling point/range (ºC):	130 - 330
Flash point Pensky Martens (ºC):	90
Evaporation rate:	Not determined
Flammability:	Combustible liquid
Explosive properties/limits:	Not determined
Vapour pressure (psi Celcius):	100 + 5
Vapour density (air = 1):	> 1
Density at 21ºC (g/cm3):	1.13 – 1.15
Solubility in water (% by weight):	Insoluble
Solubility in solvents:	Miscible
Partition coefficient (log POW):	Not determined
Auto-ignition temperature (ºC):	Not determined
Decomposition temperature (ºC):	Not determined
Viscosity (mPa.s at 100s-1):	45
Oxidising properties:	None

Cont'd

Section 9: Physical and Chemical Properties continued

9.2. Other information

Volatiles (% by weight): 82
Dielectric (kva): 38

Note: These are typical values and do not constitute a specification.

Section 10: Stability and Reactivity

10.1. Reactivity
Stable product under recommended storage and handling conditions.

10.2. Chemical stability
Stable product under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions
Stable product under recommended storage and handling conditions.

10.4. Conditions to avoid
Avoid excessive heat and sources of ignition.

10.5. Incompatible materials
Avoid accidental contact with strong oxidising materials.

10.6. Hazardous decomposition products
None known.

Section 11: Toxology Information

11.1. Information on toxicological effects

No data available on mixture. Data based on individual components shown below:

(a) acute toxicity: Reason for no classification: Data conclusive but not sufficient for classification.

(b) skin corrosion/irritation: Not corrosive or irritant but repeated exposure may cause skin dryness or cracking.

(c) serious eye damage/irritation: Reason for no classification: Data conclusive but not sufficient for classification.

(d) respiratory or skin sensitisation: Reason for no classification: Data conclusive but not sufficient for classification.

(e) germ cell mutagenicity: Reason for no classification: Data conclusive but not sufficient for classification.

(f) carcinogenicity: Perchloroethylene is a suspect carcinogen classified as Category 3 under DPD (= Category 2 under CLP). No evidence found of carcinogenic effects in humans.

(g) reproductive toxicity: Reason for no classification: Data conclusive but not sufficient for classification.

(h) STOT-single exposure: Reason for no classification: Data conclusive but not sufficient for classification.

(i) STOT-repeated exposure: Reason for no classification: Data conclusive but not sufficient for classification.

(j) aspiration hazard: Reason for no classification: Data conclusive but not sufficient for classification.

Cont'd

Section 11: Toxology Information continued

11.1. Information on toxicological effects continued

(i) STOT-repeated exposure: Reason for no classification: Data conclusive but not sufficient for classification.

(j) aspiration hazard: Reason for no classification: Data conclusive but not sufficient for classification.

Likely routes of exposure: Contact with skin and eyes or by inhalation of spray.

Symptoms related to the physical, chemical and toxicological characteristics:

If inhaled may cause anaesthesia, headache, dizziness, nausea and upper respiratory tract irritation. May cause drying of skin and irritation.
May cause irritation, tears and redness in contact with the eyes.
If swallowed may cause irritation, nausea, vomiting and diarrhoea.

Delayed and immediate effects as well as chronic effects from short and long-term exposure As above.

Other information: None.

Section 12: Ecological Information

No data available on mixture. Data based on individual components shown below:

12.1. Toxicity

Data for Perchlorethylene

- LC50 Fish, Oncorhynchus mykiss, 96hr (mg/l)	5.0 – Harmful to fish
- EC50 Invertebrate, Daphnia magna, 48hr (mg/l)	8.5 – Harmful to Daphnia

12.2. Persistence and degradability — No data available.

12.3. Bioaccumulative potential — No data available.

12.4. Mobility in soil — Not determined.

12.5. Results of PBT and vPvB assessment — Does not fulfil the criteria for classification as PBT or vPvB.

12.6. Other adverse effects — None known. Calculations based on ingredient classifications according to the precepts of the Dangerous Preparations Directive (1999/45/EC as amended) and the Classification, Labelling and Packaging of Substances and Mixtures Regulation (EC1272/2008 as amended) show this product to be toxic to aquatic organisms. It may also cause long-term adverse effects in the aquatic environment.

Section 13: Disposal Considerations

13.1. Waste treatment methods

Disposal of product: Dispose of as Hazardous Waste, via a licensed contractor ensuring that all national and local authority requirements are complied with.

Disposal of packaging: Contaminated packing should be disposed of as Hazardous Waste, as above, according to local authority guidelines. Do not incinerate or puncture container.

Cont'd

Section 14: Transport information

14.1. UN number	1950
14.2. UN proper shipping name	AEROSOLS, Flammable
14.3. Transport hazard class(es)	2.1
14.4. Packing group	None
14.5. Environmental hazards	Environmental/Marine pollutant
14.6. Special precautions for user	See P-statements and special aerosol labelling information above in Section 2.2

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Modal information

Land transport:	ADR/RID
-Transport hazard	label Flammable gas (2.1)
- ADR / RID classification	2 (Code 5F)
- Packaging group	Not applicable
Maritime transport:	IMDG
- Transport hazard label	Flammable gas (2.1)
- IMO-IMDG	class 2.1
- Packaging group	Not applicable
- EmS procedures	F-D, S-U
- Marine pollutant	Yes
Air transport:	IATA/ICAO
- Transport hazard label	Flammable gas (2.1)
- ICAO/IATA classification	2.1
- Packing group	Not applicable
- Packing instruction	203/Y203 (Passenger) 203 (Cargo)
- ERG Code	10L

Section 15: Regulatory Information

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

Control of Substances Hazardous to Health Regulations 2002

Environmental Protection Act 1990

Hazardous Waste Regulations 2005

The Aerosol Dispensers Regulations 2009

All as amended from time to time.

15.2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out on this mixture.

Cont'd

Section 16: Other information

Inventories - All ingredients listed in EINECS.

Sources of data used in this SDS

CLP Annex VI
In-house data files
Literature such as Sax's Dangerous Properties of Industrial Materials, the RSC Dictionary of Substances and their Effects, RTECS
Suppliers' Data Sheets

Version number 2

Date prepared	June 2011
Supersedes Version 1	dated February 2011
Nature of revision	Changes to Sections 2, 3, 4, 6, 8, 9, 11, 12, 14 brought about by a reformulation.

H-statements used in Section 3

H220 Extremely flammable gas
H304 May be fatal if swallowed and enters airways
H351 Suspected of causing cancer
H411 Toxic to aquatic life with long lasting effects

R-phrases used in Section 3

R12 Extremely flammable
R40 Limited evidence of a carcinogenic effect
R51/53 Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment
R65 Harmful: may cause lung damage if swallowed

Classification under Classification, Labelling and Packaging Regulations EC1272/2008 (CLP)
Carried out by calculation method

Based on EU Regulation 1907/2006 as amended by Regulation 453/2010

We believe the statements, technical information and recommendations contain herein are reliable. However, the data is provided without warranty, expressed or implied. It is the user's responsibility both to determine safe conditions for use of this product and assume loss damage or expense, direct or consequential, arising from its use. Before using the product, read information printed on the label. This product is manufactured according to Amended Aerosol Directive (75/324/EEC and 94/1/EC).

Distribuited by

TECNO2 PERFORMANCE PRODUCTS
WWW.TECNO2.COM