MATERIAL SAFETY DATA SHEET

Issuing Date: 12-Oct-2011 **Revision Date:** 12-Oct-2011 **Version** 3

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code(s) 66200
Product Name Rust-Veto 14

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

Recommended use Rust preventative, solvent based, Use as Directed.

Uses advised against Any other purpose.

1.3. Details of the supplier of the safety data sheet

Manufacturer, Importer, Supplier
Houghton plc
Beacon Road
Trafford Park
Manchester
M17 1AF
Tel: +44 (0)161 874 5000

E-mail Address MSDS@uk.houghtonglobal.com

1.4. Emergency telephone number

Emergency telephone +44 (0) 161 874 5000 (9 - 5)

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The preparation is classified as dangerous in accordance with Directive 1999/45/EC.

R65 - Harmful: may cause lung damage if swallowed
R66 - Repeated exposure may cause skin dryness or cracking

2.2. Label Elements

Symbol(s)
Xn - Harmful

Contains Naphtha (petroleum), hydrotreated heavy

R-phrase(s)
R65 - Harmful: may cause lung damage if swallowed
R66 - Repeated exposure may cause skin dryness or cracking

S-phrase(s)
None

2.3. Other hazards
None

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical Name	EC-No	CAS-No	Weight %	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number
Naphtha (petroleum), hydrotreated heavy	265-150-3	64742-48-9	50% - 100%	Xn;R65 R66	Asp. Tox. 1 (H304) (EUH066)	01-2119457273-39-xxxx
2,6-Di-tert-butyl-p-cresol	204-881-4	128-37-0	0% - 1%	N;R50-53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119565113-46-xxxx

For the full text of the R-phrases mentioned in this Section, see Section 16
For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1. Description of first-aid measures

General advice Do not breathe dust/fume/gas/mist/vapors/spray. When symptoms persist or in all cases of doubt seek medical advice. Do not get in eyes, on skin, or on clothing.

Inhalation Move to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Aspiration into lungs can produce severe lung damage. Get medical attention immediately if symptoms occur.

Skin contact Wash off with warm water and soap. Remove and wash contaminated clothing before re-use. In the case of skin irritation or allergic reactions see a physician.

Eye contact Rinse thoroughly with water as necessary. Keep eye wide open while rinsing.

Ingestion Aspiration hazard if swallowed - can enter lungs and cause damage. If swallowed, do not induce vomiting - seek medical advice.

Protection of First-aiders Use personal protective equipment

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

Main Symptoms Coughing and/ or wheezing, Ingestion may cause stomach discomfort, May be fatal if swallowed and enters airways, Difficulty breathing, Itching

4.3. Indication of immediate medical attention and special treatment needed

Notes to physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment, Use water spray, fog, Carbon dioxide (CO_2), foam or dry chemical, Cool containers / tanks with water spray, Move containers from fire area if you can do it without risk

Extinguishing media which shall not be used for safety reasons
Do not use a solid water stream as it may scatter and spread fire

5.2. Special hazards arising from the substance or mixture

Special Hazard
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke), Combustible material, In the event of fire and/or explosion do not breathe fumes, Risk of ignition

Hazardous Decomposition Products
Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

5.3. Advice for fire-fighters

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition, Ensure adequate ventilation

Advice for non-emergency personnel Material can create slippery conditions

Advice for emergency responders For personal protection see section 8

6.2. Environmental precautions

Prevent entry into waterways, sewers, basements or confined areas, Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Dike to collect large liquid spills.

6.4. Reference to other sections

See Section 8/12/13 for additional information

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions
Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.

Incompatible Materials Strong oxidizing agents, Strong acids, Strong bases

7.3. Specific end uses

Specific use(s) Rust preventative, solvent based, Use as Directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

oil mist : 5mg/m³, for 8 hours - (Ireland)
oil mist : 10mg/m³, for 15 minutes - (Ireland)

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
2,6-Di-tert-butyl-p-cresol	-	STEL: 30 mg/m³ TWA: 10 mg/m³	VME: 10 mg/m³		MAK: 20 mg/m³ Ceiling / Peak: 40 mg/m³ Skin

Chemical Name	Italy	Portugal	The Netherlands	Finland	Denmark
2,6-Di-tert-butyl-p-cresol		TWA: 2 mg/m³		TWA: 10 mg/m³ STEL: 20 mg/m³	TWA: 10 mg/m³

Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
2,6-Di-tert-butyl-p-cresol	MAK: 10 mg/m³	MAK: 10 mg/m³			TWA: 10 mg/m³

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Eye Protection Tightly fitting safety goggles

Hand Protection Protective gloves. Barrier cream. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Skin and body protection Long sleeved clothing

Respiratory protection No special protective equipment required In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls Do not allow material to contaminate ground water system
Thermal hazards None under normal use conditions

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state @20°C liquid
Appearance amber
Odor Solvent
Odor Threshold Not applicable

Property	Values	Note
pH	Not applicable	
Melting/freezing point	< 0 °C	
Boiling point/boiling range	152 °C	
Flash Point	> 61 °C	PMCC
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
upper flammability limit	No information available	
lower flammability limit	No information available	
Vapor pressure	0.07 kPa @ 20C	
Vapor density	No information available	
Relative density	0.872	@15.5C
Water Solubility	Immiscible in water	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	Not applicable	
Autoignition temperature	> 200 °C	
Decomposition temperature	No information available	
Viscosity (kinematic)	2 cSt @ 40 °C	ISO 3104 ISO 3105
Explosive properties	Not applicable	
Oxidizing Properties	Not applicable	

Other information
VOC Content 2 g/L

10. STABILITY AND REACTIVITY

10.1. Reactivity

None under normal use conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None under normal use conditions

10.4. Conditions to avoid

Heat, flames and sparks, Keep away from open flames, hot surfaces and sources of ignition

10.5. Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

10.6. Hazardous decomposition products

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Product Information - Principle Routes of Exposure

Inhalation Aspiration into lungs can produce severe lung damage

Eye contact No known hazard

Skin contact Repeated exposure may cause skin dryness or cracking

Ingestion Harmful if swallowed: May cause lung damage if swallowed; Potential for aspiration if swallowed

Acute toxicity - Product Information

May be harmful if swallowed and enters airways

Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,6-Di-tert-butyl-p-cresol	890 mg/kg (Rat)	-	-

Irritation Repeated exposure may cause skin dryness or cracking

Corrosivity None

Sensitization None known

Repeated Dose Toxicity Repeated exposure may cause skin dryness or cracking

Carcinogenicity Mineral oils are known to cause cancer because of carcinogenic components (e.g. benzene). The mineral oil in this product is highly refined and should not be considered a carcinogen

Mutagenicity None known

Toxicity to Reproduction None known

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
2,6-Di-tert-butyl-p-cresol	6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50	5: 48 h Oryzias latipes mg/L LC50	-	-

12.2. Persistence and degradability

The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation is unlikely

Chemical Name	log Pow
2,6-Di-tert-butyl-p-cresol	4.17

12.4. Mobility in soil

The product is insoluble and floats on water

12.5. Results of PBT and vPvB assessment

No information available

12.6. Other adverse effects

None known

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused Products Dispose of as hazardous waste in compliance with local and national regulations

Special risks and unsuitable means when handling product waste/waste packaging None

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal

Other information According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

14. TRANSPORT INFORMATION

14.1. UN-Number

Not regulated

14.2. UN proper shipping name

Not regulated

14.3. Transport hazard class

Not regulated

14.4. Packing group

Not regulated

14.5. Environmental Hazards

None

14.6. Special precautions for users

None

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

Not applicable

IMDG/IMO	Not regulated
ADR/RID	Not regulated
ICAO/IATA	Not regulated

15. REGULATORY INFORMATION

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

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Dir 94/33/EC on the protection of young people at work.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 & (EC) No. 1272/2008 & (EC) 1999/45.
Acts of Parliament: The Health and Safety at Work etc. Act 1974. Environment Protection Act 1990
Statutory Instruments: Control of Substances Hazardous to Health Regulations 2002. Chemicals (Hazard Information and Packaging) Regulations 2009
The Carriage of Dangerous Goods Regulations 2009
The Hazardous Waste (England and Wales) Regulations 2005
Workplace exposure limits (EH40)
The classification detailed on this Safety Data Sheet refer to the neat material only. Dilution of the product may reduce the classification

15.2. Chemical Safety Assessment

No information available

16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3
R66 - Repeated exposure may cause skin dryness or cracking
R65 - Harmful: may cause lung damage if swallowed
R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Full text of H-Statements referred to under section 2 and 3
H304 - May be fatal if swallowed and enters airways
EUH066 - Repeated exposure may cause skin dryness or cracking
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
Exposure scenario
No information available

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