

# COO-VAR®

## PAINTS, PRIMERS AND SPECIALISED COATINGS

### SAFETY DATA SHEET

#### 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

**Product name** 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

**Product number** 201/C264/2/R

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

**Identified uses** As an anti-climb paint

##### 1.3. Details of the supplier of the safety data sheet

**Supplier** COO-VAR  
Lockwood Street  
Hull  
HU2 0HN  
+44 (0) 1482 328053(T)  
+44 (0) 1482 219266(F)  
info@coo-var.co.uk

**Contact person** Technical Department -, 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri, as above

##### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1482 328053 Coo-Var (08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri)

**SDS No.** 11064

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Aerosol 1 - H222, H229

**Health hazards** STOT SE 3 - H336 STOT RE 1 - H372 Asp. Tox. 1 - H304

**Environmental hazards** Aquatic Chronic 2 - H411

###### Classification (67/548/EEC or 1999/45/EC)

**Human health** Gas or vapour is harmful on prolonged exposure or in high concentration. Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Deliberately concentrating and inhaling contents of this container is dangerous and can be fatal.

**Environmental** The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

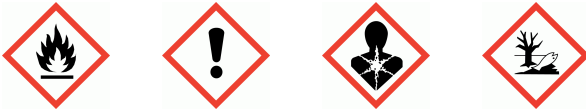
## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

### Physicochemical

The product is extremely flammable and may ignite in the air at normal temperature and pressure. Explosive vapour/air mixtures may be spontaneously formed. Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited. Do not pierce or burn even after use.

### 2.2. Label elements

#### Pictogram



#### Signal word

Danger

#### Hazard statements

H222 Extremely flammable aerosol.  
 H229 Pressurised container: may burst if heated.  
 H336 May cause drowsiness or dizziness.  
 H372 Causes damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.  
 H304 May be fatal if swallowed and enters airways.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P260 Do not breathe spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 P501 Dispose of contents/ container in accordance with national regulations.

#### Supplemental label information

EUH066 Repeated exposure may cause skin dryness or cracking.

#### Contains

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

#### Supplementary precautionary statements

P270 Do not eat, drink or smoke when using this product.  
 P314 Get medical advice/ attention if you feel unwell.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P403 Store in a well-ventilated place.

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS</b>		<b>30-60%</b>
CAS number: 68476-85-7		EC number: 270-704-2
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Flam. Gas 1 - H220	F+;R12 Carc. Cat. 1;R45 Muta. Cat. 2;R46	
Press. Gas (Liq.) - H280		

## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

<b>Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)</b>	<b>10-30%</b>
CAS number: —	EC number: 919-446-0
	REACH registration number: 01-2119458049-33-XXXX
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H336 STOT RE 1 - H372 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R65. N;R51/53. R10,R66,R67.
<b>ETHANOL</b>	<b>&lt;1%</b>
CAS number: 64-17-5	EC number: 200-578-6
	REACH registration number: 01-2119457610-43-xxxx
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> F;R11
<b>METHANOL</b>	<b>&lt;1%</b>
CAS number: 67-56-1	EC number: 200-659-6
<b>Classification</b> Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370	<b>Classification (67/548/EEC or 1999/45/EC)</b> F;R11 T;R23/24/25,R39/23/24/25

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person.
<b>Inhalation</b>	If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	Rinse mouth thoroughly with water. DO NOT induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. DO NOT use solvents or thinners
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin contact</b>	No specific symptoms known.
<b>Eye contact</b>	May cause temporary eye irritation.

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

<b>Notes for the doctor</b>	No specific recommendations.
-----------------------------	------------------------------

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Extinguish with foam, carbon dioxide, dry powder or water fog.
-------------------------------------	----------------------------------------------------------------

### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Extremely flammable. Forms explosive mixtures with air. Vapours are heavier than air and may spread near ground and travel a considerable distance to a source of ignition and flash back. Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up.
-------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Use water to keep fire exposed containers cool and disperse vapours. Warn firefighters that aerosols are involved.
<b>Special protective equipment for firefighters</b>	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

<b>Personal precautions</b>	Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate. Avoid inhalation of vapours.
-----------------------------	------------------------------------------------------------------------------------------------------------------------------

### 6.2. Environmental precautions

<b>Environmental precautions</b>	Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material.
----------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------

### 6.3. Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Absorb spillage with non-combustible, absorbent material. Leave small quantities to evaporate, if safe to do so. Do not allow material to enter confined spaces, due to the risk of explosion.
--------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

### 6.4. Reference to other sections

<b>Reference to other sections</b>	The product contains a substance which is hazardous to aquatic organisms and which may cause long term adverse effects in the aquatic environment. See Section 12 for additional information on ecological hazards.
------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

**Usage precautions** Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Do not spray near naked flame or any incandescent material.

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage precautions** Extremely flammable. Keep away from heat, sparks and open flame. Store at moderate temperatures in dry, well ventilated area. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Do not pierce or burn even after use.

### 7.3. Specific end use(s)

**Specific end use(s)** The identified uses for this product are detailed in Section 1.2.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

#### **PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1750 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 1250 ppm 2180 mg/m<sup>3</sup>

#### **Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)**

Long-term exposure limit (8-hour TWA): WEL 350 mg/m<sup>3</sup>

#### **ETHANOL**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m<sup>3</sup>

#### **METHANOL**

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 266 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 250 ppm(Sk) 333 mg/m<sup>3</sup>(Sk)

WEL = Workplace Exposure Limit

**Ingredient comments** SUP = Supplier's recommendation.

#### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

<b>DNEL</b>	Consumer - Oral; Long term systemic effects: 26 mg/kg/day Consumer - Dermal; Long term systemic effects: 26 mg/kg/day Consumer - Inhalation; Long term systemic effects: 71 mg/m <sup>3</sup> Consumer - Inhalation; Short term systemic effects: 570 mg/m <sup>3</sup> Industry - Inhalation; Short term systemic effects: 570 mg/m <sup>3</sup> Industry - Inhalation; Long term systemic effects: 330 mg/m <sup>3</sup> Industry - Dermal; Long term systemic effects: 44 mg/kg/day
<b>PNEC</b>	No PNEC available. Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this complex substance.

#### ETHANOL (CAS: 64-17-5)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 950 mg/m <sup>3</sup> Workers - Inhalation; Short term local effects: 1900 mg/m <sup>3</sup> Workers - Dermal; Long term systemic effects: 343 mg/kg/day Consumer - Inhalation; Long term systemic effects: 114 mg/m <sup>3</sup> Consumer - Inhalation; Short term local effects: 950 mg/m <sup>3</sup> Consumer - Dermal; Long term systemic effects: 206 mg/kg/day Consumer - Oral; Long term systemic effects: 87 mg/kg/day
-------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

<b>PNEC</b>	- Fresh water; 0.96 mg/l
	- marine water; 0.79 mg/l
	- Intermittent release; 2.75 mg/l
	- STP; 580 mg/l
	- Sediment (Freshwater); 3.6 mg/kg/day
	- Sediment (Marinewater); 2.9 mg/kg/day
	- Soil; 0.63 mg/kg/day

### METHANOL (CAS: 67-56-1)

<b>DNEL</b>	Workers - Dermal; Short term systemic effects: 40 mg/kg/day
	Workers - Inhalation; Short term systemic effects: 260 mg/m <sup>3</sup>
	Workers - Inhalation; Short term systemic effects: 40 mg/m <sup>3</sup>
	Workers - Dermal; Long term systemic effects: 40 mg/kg/day
	Workers - Inhalation; Long term systemic effects: 260 mg/m <sup>3</sup>
	Workers - Inhalation; Long term local effects: 260 mg/m <sup>3</sup>
	Consumer - Dermal; Short term systemic effects: 8 mg/kg/day
	Consumer - Inhalation; Short term systemic effects: 50 mg/m <sup>3</sup>
	Consumer - Oral; Short term systemic effects: 8 mg/kg/day
	Consumer - Inhalation; Long term local effects: 50 mg/m <sup>3</sup>
	Consumer - Oral; Long term systemic effects: 8 mg/kg/day
	Consumer - Inhalation; Long term systemic effects: 50 mg/m <sup>3</sup>
	Consumer - Dermal; Long term systemic effects: 8 mg/kg/day
	Consumer - Inhalation; Short term local effects: 50 mg/m <sup>3</sup>

<b>PNEC</b>	- Fresh water; 154 mg/l
	- marine water; 15.4 mg/l
	- Sediment; 570.4 mg/kg
	- Soil; 23.5 mg/kg
	- STP; 100 mg/l
	- Intermittent release; 1540 mg/l

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate ventilation. Avoid inhalation of vapours and spray/mists. Observe any occupational exposure limits for the product or ingredients.

#### Personal protection

When using do not smoke.

#### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.

## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

<b>Hand protection</b>	To protect hands from chemicals, gloves should comply with European Standards EN388 and 374. As a general principle, exposure should be managed by means other than the provision of protective gloves. Manufacturer's performance data suggest that the optimum glove for use should be: Wear protective gloves made of the following material: Nitrile rubber. Thickness: $\geq$ 0.31 mm Permeation breakthrough time according to EN374 - class: (1-6) e.g. minimum 480 mins. Caution: The performance of gloves under actual working conditions can be significantly affected by many factors and the information provided according to EN374 may not accord with what is achieved in practice. We recommend that expert professional advice is sought that takes into account of the work processes and working environment applicable for each task where gloves are to be worn.
<b>Other skin and body protection</b>	Wear appropriate clothing to prevent reasonably probable skin contact.
<b>Hygiene measures</b>	Wash hands after handling. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.
<b>Respiratory protection</b>	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. In confined or poorly-ventilated spaces, a supplied-air respirator must be worn.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Aerosol containing a mixture of active ingredients, solvents and propellants.
<b>Colour</b>	Black.
<b>Odour</b>	Organic solvents.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	Technically not feasible.
<b>Melting point</b>	Not determined.
<b>Initial boiling point and range</b>	Not determined.
<b>Flash point</b>	< -40°C
<b>Evaporation rate</b>	Not determined.
<b>Evaporation factor</b>	Not determined.
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 1.8 %
<b>Other flammability</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density</b>	heavier than air
<b>Relative density</b>	1.46 @ @ 20°C
<b>Solubility(ies)</b>	Insoluble in water
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not determined.
<b>Decomposition Temperature</b>	Not determined.
<b>Viscosity</b>	2.1 (Cone and Plate) P @ 25°C

## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

<b>Explosive properties</b>	Not determined.
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Not determined.
<b>Comments</b>	Information given is applicable to the major ingredient. 23 Flammable gas

### 9.2. Other information

<b>Volatile organic compound</b>	This product contains a maximum VOC content of <400 g/l.
----------------------------------	----------------------------------------------------------

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
-------------------	---------------------------------------------------------------------

### 10.2. Chemical stability

<b>Stability</b>	Stable at normal ambient temperatures and when used as recommended.
------------------	---------------------------------------------------------------------

### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	Not applicable.
-------------------------------------------	-----------------

### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Avoid exposing aerosol containers to high temperatures or direct sunlight.
----------------------------	------------------------------------------------------------------------------------------------------------------------------

### 10.5. Incompatible materials

<b>Materials to avoid</b>	Strong acids. Strong oxidising agents.
---------------------------	----------------------------------------

### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.
-----------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>General information</b>	Deliberately concentrating and inhaling the contents of this container is dangerous and can be fatal.
<b>Inhalation</b>	Irritating to respiratory system.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. May cause allergic contact eczema.
<b>Eye contact</b>	Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.
<b>Acute and chronic health hazards</b>	Arrhythmia, (deviation from normal heart beat). In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
<b>Route of exposure</b>	Inhalation Ingestion. Skin and/or eye contact.
<b>Target organs</b>	Eyes Skin Respiratory system, lungs



## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

**Medical symptoms** Arrhythmia, (deviation from normal heart beat). Narcotic effect. Vapours may cause drowsiness and dizziness.

### Toxicological information on ingredients.

#### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

**Toxicological effects** Information given is based on product data, a knowledge of the components and the toxicology of similar products.

#### Skin corrosion/irritation

**Skin corrosion/irritation** Not irritating.

#### Germ cell mutagenicity

**Genotoxicity - in vitro** This substance has no evidence of mutagenic properties.

#### Carcinogenicity

**Carcinogenicity** There is no evidence that the product can cause cancer.

#### Specific target organ toxicity - single exposure

**STOT - single exposure** Gas or vapour is harmful on prolonged exposure or in high concentrations. High concentrations may be fatal.

#### Aspiration hazard

**Aspiration hazard** Not anticipated to present an aspiration hazard, based on chemical structure.

#### Inhalation

May cause respiratory system irritation.

#### Skin contact

Spray will evaporate and cool rapidly and may cause frostbite or cold burns if in contact with skin.

#### Route of exposure

Inhalation Skin and/or eye contact

#### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

#### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 15,000.0

**Species** Rat

**Notes (oral LD<sub>50</sub>)** Conclusive data but not sufficient for classification.

#### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 3,400.0

**Species** Rabbit

**Notes (dermal LD<sub>50</sub>)** Conclusive data but not sufficient for classification.

#### Skin corrosion/irritation

**Animal data** Erythema/eschar score: Very slight erythema - barely perceptible (1). Oedema score: Very slight oedema - barely perceptible (1). Not irritating.

#### Extreme pH

Not irritating. Not corrosive to skin.

#### Serious eye damage/irritation

## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

<b>Serious eye damage/irritation</b>	Not irritating.
<b><u>Respiratory sensitisation</u></b>	
<b>Respiratory sensitisation</b>	There is evidence that the material can lead to respiratory hypersensitivity.
<b><u>Skin sensitisation</u></b>	
<b>Skin sensitisation</b>	Guinea pig maximization test (GPMT) - Guinea pig: Not sensitising. Buehler test - Guinea pig: Not sensitising.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	Bacterial reverse mutation test: Negative.
<b>Genotoxicity - in vivo</b>	Chromosome aberration: Negative.
<b><u>Carcinogenicity</u></b>	
<b>Carcinogenicity</b>	NOAEL 300 mg/kg, Oral, Rat There is no evidence that the product can cause cancer.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	One-generation study - NOAEL >3000 mg/kg/day, Oral, Rat P This substance has no evidence of toxicity to reproduction.
<b>Reproductive toxicity - development</b>	Developmental toxicity: - NOAEC: >300 ppm, Inhalation, Rat Read-across data. This substance has no evidence of toxicity to reproduction.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Central nervous system depression including narcotic effects such as drowsiness, narcosis, reduced alertness, loss of reflexes, lack of coordination and vertigo.
<b>Target organs</b>	Central nervous system
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	NOAEL 1056 mg/kg, Oral, Rat
<b><u>Aspiration hazard</u></b>	
<b>Aspiration hazard</b>	Kinematic viscosity <= 20.5 mm <sup>2</sup> /s.
<b><u>Inhalation</u></b>	
<b>Inhalation</b>	Vapours may cause drowsiness and dizziness.
<b><u>Ingestion</u></b>	
<b>Ingestion</b>	Harmful: may cause lung damage if swallowed. May cause stomach pain or vomiting.
<b><u>Skin contact</u></b>	
<b>Skin contact</b>	May cause defatting of the skin, but is not an irritant. Not a skin sensitiser.
<b><u>Eye contact</u></b>	
<b>Eye contact</b>	No specific health hazards known.
<b><u>Route of exposure</u></b>	
<b>Route of exposure</b>	Skin and/or eye contact. Inhalation
<b><u>Target organs</u></b>	
<b>Target organs</b>	Central nervous system
<b><u>ETHANOL</u></b>	
<b><u>Acute toxicity - oral</u></b>	
<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	10,470.0

## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	10,470.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	2,100.0
<b>Species</b>	Rabbit
<b>ATE dermal (mg/kg)</b>	2,100.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	51.0
<b>Species</b>	Rat
<b>ATE inhalation (vapours mg/l)</b>	51.0
<b><u>Carcinogenicity</u></b>	
<b>IARC carcinogenicity</b>	IARC Group 1 Carcinogenic to humans.

### METHANOL

<b><u>Acute toxicity - oral</u></b>	
<b>ATE oral (mg/kg)</b>	100.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>ATE inhalation (vapours mg/l)</b>	3.0

## SECTION 12: Ecological information

<b>Ecotoxicity</b>	The product has not been tested but contains ingredients which are toxic or very toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. During normal use the volatility of the components and the packaging form, pressurised container, make entry into the aquatic environment unlikely, however, do not empty or discharge into drains or watercourses. Ensure container is empty before disposal to prevent contents entering watercourses.
--------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

### Ecological information on ingredients.

#### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

<b>Ecotoxicity</b>	Dangerous for the environment if discharged into watercourses.
--------------------	----------------------------------------------------------------

### 12.1. Toxicity

#### Ecological information on ingredients.

#### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

<b>Toxicity</b>	Not regarded as dangerous for the environment.
-----------------	------------------------------------------------

#### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

<b>Toxicity</b>	Dangerous for the environment if discharged into watercourses Toxic to aquatic organisms
-----------------	------------------------------------------------------------------------------------------

## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 10 - 30 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 10 - 22 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	IC <sub>50</sub> , 72 hours: 4.6 - 10 mg/l, Pseudokirchneriella subcapitata
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 48 hours: 43.98 mg/l, Activated sludge

### Chronic aquatic toxicity

<b>Chronic toxicity - fish early life stage</b>	NOEC, 28 days: 0.13 mg/l, Freshwater fish
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, < 21 days: 0.28 mg/l, Daphnia magna

## ETHANOL

### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 15300 mg/l, Pimephales promelas (Fat-head Minnow) LC <sub>50</sub> , 96 hours: 13000 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 12340 mg/l, Daphnia magna LC <sub>50</sub> , 48 hours: 5012 mg/l, Freshwater invertebrates
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 275 mg/l, Freshwater algae
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 4 hours: 5800 mg/l, Activated sludge

### Chronic aquatic toxicity

<b>Chronic toxicity - fish early life stage</b>	NOEC, 30 days: 245 mg/l,
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 10 days: 9.6 mg/l, Freshwater invertebrates

## METHANOL

### Acute aquatic toxicity

<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 15400 mg/l, Lepomis macrochirus (Bluegill)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 24 hours: 20803 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: 22000 mg/l, Pseudokirchneriella subcapitata
<b>Acute toxicity - microorganisms</b>	IC <sub>50</sub> , 3 hours: > 1000 mg/l, Activated sludge

### Chronic aquatic toxicity

<b>Chronic toxicity - fish early life stage</b>	LOEC, 200 hours: 7900 mg/l, Fish NOEC, 28 days: 446.7 mg/l, Fish
-------------------------------------------------	---------------------------------------------------------------------

## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

### 12.2. Persistence and degradability

**Persistence and degradability** There are no data on the degradability of this product.

#### Ecological information on ingredients.

##### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

**Persistence and degradability** The product is degraded completely by photochemical oxidation.

##### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

**Persistence and degradability** The product is readily biodegradable.

**Phototransformation** Scientifically unjustified.

**Stability (hydrolysis)** Scientifically unjustified.

**Biodegradation** - Degradation 75: 28 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** Not determined.

#### Ecological information on ingredients.

##### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

**Bioaccumulative potential** Bioaccumulation is unlikely.

##### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

**Bioaccumulative potential** Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for this complex substance.

**Partition coefficient** Technically not feasible.

##### ETHANOL

**Bioaccumulative potential** log Kow: -0.35, BCF: 0.66,

##### METHANOL

**Bioaccumulative potential** BCF: < 10,

**Partition coefficient** log Kow: 0.77

### 12.4. Mobility in soil

**Mobility** Not determined

#### Ecological information on ingredients.

##### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

**Mobility** The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

##### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

<b>Adsorption/desorption coefficient</b>	Scientifically unjustified.
<b>Henry's law constant</b>	Volatilisation is dependent on Henry's Law constant (HLC) which is not applicable to complex substances.
<b>Surface tension</b>	24 - 27 mN/m @ 25°C

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### Ecological information on ingredients.

#### PETROLEUM GASES, LIQUEFIED; PETROLEUM GAS

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

#### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### ETHANOL

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

#### METHANOL

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### 12.6. Other adverse effects

**Other adverse effects** Not determined.

#### Ecological information on ingredients.

#### Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

**Other adverse effects** This substance may contribute to ozone formation in the near surface atmosphere. However, the photochemical formation of ozone depends on a complex interaction of other atmospheric pollutant sources and environmental conditions. Therefore, the contribution of this substance to ozone formation is outside the scope of this substance assessment and is more appropriately addressed via EU air quality directives.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>General information</b>	Do not puncture or incinerate even when empty.
<b>Disposal methods</b>	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Containers should be thoroughly emptied before disposal because of the risk of an explosion. DO NOT BURN OR INCINERATE CONTAINERS EVEN WHEN EMPTY - CONTAINERS MAY BURST OR EXPLODE VIOLENTLY IF EXPOSED TO EXTREME HEAT.

## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

### SECTION 14: Transport information

**General** This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG. These provisions allow transport of aerosols of less than 1 litre packed in cartons of less than 30kg gross weight to be exempt from control providing that they are labelled in accordance with the requirements of these regulations to show that they are being transported as Limited Quantities. Aerosols not so packed and labelled must show the following.

#### 14.1. UN number

UN No. (ADR/RID) 1950

UN No. (IMDG) 1950

UN No. (ICAO) 1950

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID) AEROSOL DISPENSERS NOS

Proper shipping name (IMDG) AEROSOL DISPENSERS NOS

Proper shipping name (ICAO) AEROSOL DISPENSERS NOS

#### 14.3. Transport hazard class(es)

ADR/RID class 3

IMDG class 3

ICAO class/division 3

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

#### 14.6. Special precautions for user

Tunnel restriction code (D)

#### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78  
and the IBC Code

### SECTION 15: Regulatory information

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

## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

<b>National regulations</b>	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). The Aerosol Dispensers Regulations 2009 (SI 2009 No. 2824).
<b>EU legislation</b>	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Commission Regulation (EU) No 2015/830 of 28 May 2015.
<b>Guidance</b>	British Aerosol Manufacturers Code of Practice 7th. Edition 1999.

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	ATE: Acute Toxicity Estimate. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. GHS: Globally Harmonized System. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air. IMDG: International Maritime Dangerous Goods. LD <sub>50</sub> : Lethal Dose to 50% of a test population (Median Lethal Dose). PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail. vPvB: Very Persistent and Very Bioaccumulative. MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. EC <sub>50</sub> : 50% of maximal Effective Concentration.
<b>Classification abbreviations and acronyms</b>	Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic) Asp. Tox. = Aspiration hazard Resp. Sens. = Respiratory sensitisation STOT RE = Specific target organ toxicity-repeated exposure STOT SE = Specific target organ toxicity-single exposure
<b>Revision comments</b>	Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 2015/830 Revision to sections 2, 8, 11 & 12 for reclassification of solvents.
<b>Issued by</b>	Technical Dept. (P.E.)
<b>Revision date</b>	31/10/2018
<b>Revision</b>	7.0
<b>Supersedes date</b>	15/02/2017
<b>SDS number</b>	11064
<b>SDS status</b>	Approved.



## 201/C264 - VANDALENE (ANTI-CLIMB PAINT) AEROSOL

<b>Hazard statements in full</b>	H220 Extremely flammable gas. H222 Extremely flammable aerosol. H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H229 Pressurised container: may burst if heated. H280 Contains gas under pressure; may explode if heated. H301 Toxic if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H319 Causes serious eye irritation. H331 Toxic if inhaled. H336 May cause drowsiness or dizziness. H372 Causes damage to organs through prolonged or repeated exposure. H372 Causes damage to organs through prolonged or repeated exposure if inhaled. H411 Toxic to aquatic life with long lasting effects. H370 Causes damage to organs (Central nervous system, Eyes) if swallowed or if inhaled.
<b>Signature</b>	Initials_____

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.