

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

### 1.1. Product identifier

Product form : Mixture  
Name : Noboclene Plus  
Product code : 34531163

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

#### 1.2.1. Relevant identified uses

Main use category : Consumer use, Professional use  
Use of the substance/mixture : Whiteboard Cleaner

#### 1.2.2. Uses advised against

No additional information available

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

Acco UK Ltd.  
Oxford House, Oxford Road,  
Aylesbury, Bucks,  
HP21 8SZ.

Telephone: +44 (0) 844 209 8360 (9am to 5pm)  
Fax: +44 (0) 845 603 1731  
Website: [www.acco.co.uk](http://www.acco.co.uk)  
Email: [informationeurope@acco.com](mailto:informationeurope@acco.com)

### 1.4. Emergency telephone number

Emergency number : 0844 2098360

Country	Organisation/Company	Address	Emergency number
IRELAND (REPUBLIC OF)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
UNITED KINGDOM	National Poisons Information Service (NHS Direct)	<a href="http://www.npis.org">http://www.npis.org</a>	111 (England & Wales only) or 112 (EU) or 08454 24 24 24 (Scotland)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol 1 H222;H229  
Skin Irrit. 2 H315  
Eye Dam. 1 H318

Full text of H-phrases: see section 16

#### Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xi; R41

Full text of R-phrases: see section 16

#### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

#### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS05

Signal word (CLP) :

Danger

Hazardous ingredients :

sodium dodecylbenzenesulfonate

Hazard statements (CLP) :

H222 - Extremely flammable aerosol  
H229 - Pressurised container: May burst if heated



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H315 - Causes skin irritation  
H318 - Causes serious eye damage

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P251 - Do not pierce or burn, even after use  
P264 - Wash hands thoroughly after handling  
P280 - Wear eye protection, face protection, protective clothing, protective gloves  
P302+P352 - IF ON SKIN: Wash with plenty of water  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

## 2.3. Other hazards

Other hazards not contributing to the classification : Contains gas under pressure; may explode if heated.

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Product identifier	%	Classification according to Directive 67/548/EEC
propan-2-ol, isopropyl alcohol, isopropanol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0	1 - 15	F; R11 Xi; R36 R67
sodium dodecylbenzenesulfonate	(CAS No) 25155-30-0 (EC no) 246-680-4	1 - 15	Xn; R22 Xi; R41 Xi; R37/38 N; R50
butane substance with national workplace exposure limit(s) (AT, BE, BG, DE, DK, ET, FI, FR, GB, GR, HU, IE, IT, LV, PL, PT)	(CAS No) 106-97-8 (EC no) 203-448-7 (EC index no) 601-004-00-0	1 - 15	F+; R12
propane substance with national workplace exposure limit(s) (AT, BE, BG, DE, DK, ET, FI, GR, IE, PL, RO)	(CAS No) 74-98-6 (EC no) 200-827-9 (EC index no) 601-003-00-5	1 - 15	F+; R12

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propan-2-ol, isopropyl alcohol, isopropanol	(CAS No) 67-63-0 (EC no) 200-661-7 (EC index no) 603-117-00-0	1 - 15	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
sodium dodecylbenzenesulfonate	(CAS No) 25155-30-0 (EC no) 246-680-4	1 - 15	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400
butane substance with national workplace exposure limit(s) (AT, BE, BG, DE, DK, ET, FI, FR, GB, GR, HU, IE, IT, LV, PL, PT)	(CAS No) 106-97-8 (EC no) 203-448-7 (EC index no) 601-004-00-0	1 - 15	Flam. Gas 1, H220
propane substance with national workplace exposure limit(s) (AT, BE, BG, DE, DK, ET, FI, GR, IE, PL, RO)	(CAS No) 74-98-6 (EC no) 200-827-9 (EC index no) 601-003-00-5	1 - 15	Flam. Gas 1, H220

Full text of R- and H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.

First-aid measures after skin contact : Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/injuries after skin contact : Causes skin irritation.



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Symptoms/injuries after eye contact : Causes serious eye damage.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

No additional information available

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if substance enters sewers or public waters.

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

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash Skin thoroughly after handling.

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

Storage conditions : Keep container closed when not in use. Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat and ignition sources.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
Austria	MAK (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Austria	MAK (ppm)	200 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	2000 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	800 ppm
Belgium	Limit value (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Belgium	Limit value (ppm)	200 ppm
Belgium	Short time value (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Belgium	Short time value (ppm)	400 ppm



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propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
Bulgaria	OEL STEL (mg/m <sup>3</sup> )	1225 mg/m <sup>3</sup>
France	VLE (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
France	VLE (ppm)	400 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	200 ppm
Germany	Remark (TRGS 900)	DFG, Y
Greece	OEL TWA (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	400 ppm
Greece	OEL STEL (mg/m <sup>3</sup> )	1225 mg/m <sup>3</sup>
Greece	OEL STEL (ppm)	500 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	400 ppm
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Eye & URT irr; CNS impair
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	980 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	400 ppm
Switzerland	VME (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Switzerland	VME (ppm)	200 ppm
Switzerland	Remark (CH)	4x15
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	999 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1250 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	500 ppm
Czech Republic	Expoziční limity (PEL) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (PEL) (ppm)	204 ppm
Czech Republic	Expoziční limity (NPK-P) (mg/m <sup>3</sup> )	1000 mg/m <sup>3</sup>
Czech Republic	Expoziční limity (NPK-P) (ppm)	410 ppm
Czech Republic	Remark (CZ)	D
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	490 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	200 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	200 ppm
Finland	HTP-arvo (15 min)	620 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	250 ppm
Hungary	AK-érték	500 mg/m <sup>3</sup>
Hungary	CK-érték	2000 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	b, i; II.1.
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (ppm)	400 ppm
Ireland	Notes (IE)	Sk
Lithuania	IPRV (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
Lithuania	IPRV (ppm)	150 ppm
Lithuania	TPRV (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Lithuania	TPRV (ppm)	250 ppm
Norway	Gjennomsnittsverdier (AN) (mg/m <sup>3</sup> )	245 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (AN) (ppm)	100 ppm
Poland	NDS (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Poland	NDSch (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>

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propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)		
Romania	OEL TWA (mg/m <sup>3</sup> )	200 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	81 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	500 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	203 ppm
Sweden	nivågränsvärde (NVG) (mg/m <sup>3</sup> )	350 mg/m <sup>3</sup>
Sweden	nivågränsvärde (NVG) (ppm)	150 ppm
Sweden	kortidsvärde (KTV) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Sweden	kortidsvärde (KTV) (ppm)	250 ppm
Australia	TWA (mg/m <sup>3</sup> )	983 mg/m <sup>3</sup>
Australia	TWA (ppm)	400 ppm
Australia	STEL (mg/m <sup>3</sup> )	1230 mg/m <sup>3</sup>
Australia	STEL (ppm)	500 ppm
Portugal	OEL TWA (ppm)	200 ppm
Portugal	OEL STEL (ppm)	400 ppm

butane (106-97-8)		
Austria	MAK (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Austria	MAK (ppm)	800 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	3800 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	1600 ppm
Belgium	Limit value (ppm)	1000 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
France	VME (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
France	VME (ppm)	800 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	2400 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	1000 ppm
Germany	Remark (TRGS 900)	DFG
Greece	OEL TWA (mg/m <sup>3</sup> )	2350 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	1000 ppm
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1000 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	1000 ppm
Latvia	OEL TWA (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup>
Switzerland	VME (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Switzerland	VME (ppm)	800 ppm
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1450 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	600 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1810 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	750 ppm
United Kingdom	Remark (WEL)	Carc. (only applies if Butane contains more than 0.1% of buta-1,3-diene)
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	1200 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	500 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	800 ppm
Finland	HTP-arvo (15 min)	2400 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	1000 ppm
Hungary	AK-érték	2350 mg/m <sup>3</sup>
Hungary	CK-érték	9400 mg/m <sup>3</sup>
Hungary	Megjegyzések (HU)	IV.
Ireland	OEL (8 hours ref) (ppm)	1000 ppm
Norway	Gjennomsnittsverdier (AN) (mg/m <sup>3</sup> )	600 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (AN) (ppm)	250 ppm
Poland	NDS (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>

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butane (106-97-8)		
Poland	NDSch (mg/m <sup>3</sup> )	3000 mg/m <sup>3</sup>
Australia	TWA (mg/m <sup>3</sup> )	1900 mg/m <sup>3</sup>
Australia	TWA (ppm)	800 ppm

propane (74-98-6)		
Austria	MAK (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Austria	MAK (ppm)	1000 ppm
Austria	MAK Short time value (mg/m <sup>3</sup> )	3600 mg/m <sup>3</sup>
Austria	MAK Short time value (ppm)	2000 ppm
Belgium	Limit value (ppm)	1000 ppm
Bulgaria	OEL TWA (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Germany	TRGS 900 Occupational exposure limit value (ppm)	1000 ppm
Germany	Remark (TRGS 900)	DFG
Greece	OEL TWA (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Greece	OEL TWA (ppm)	1000 ppm
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
Switzerland	VLE (mg/m <sup>3</sup> )	7200 mg/m <sup>3</sup>
Switzerland	VLE (ppm)	4000 ppm
Switzerland	VME (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Switzerland	VME (ppm)	1000 ppm
Switzerland	Remark (CH)	4x15
Denmark	Grænseværdie (langvarig) (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Denmark	Grænseværdie (langvarig) (ppm)	1000 ppm
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	1500 mg/m <sup>3</sup>
Finland	HTP-arvo (8h) (ppm)	800 ppm
Finland	HTP-arvo (15 min)	2000 mg/m <sup>3</sup>
Finland	HTP-arvo (15 min) (ppm)	1100 ppm
Ireland	OEL (8 hours ref) (ppm)	1000 ppm
Ireland	Notes (IE)	Asphx
Norway	Gjennomsnittsverdier (AN) (mg/m <sup>3</sup> )	900 mg/m <sup>3</sup>
Norway	Gjennomsnittsverdier (AN) (ppm)	500 ppm
Poland	NDS (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Romania	OEL TWA (mg/m <sup>3</sup> )	1400 mg/m <sup>3</sup>
Romania	OEL TWA (ppm)	778 ppm
Romania	OEL STEL (mg/m <sup>3</sup> )	1800 mg/m <sup>3</sup>
Romania	OEL STEL (ppm)	1000 ppm

## 8.2. Exposure controls

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation.

Personal protective equipment

: Protective clothing. Protective goggles. Gloves.



Hand protection

: Wear protective gloves.

Eye protection

: Chemical goggles or safety glasses.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: Wear appropriate mask.

Other information

: Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Appearance	: Aerosol.
Colour	: white.
Odour	: Sweet.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

LD50 oral rat	5045 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Experimental value; 5840 mg/kg bodyweight; Rat)
LD50 dermal rabbit	12870 mg/kg (Rabbit; Experimental value; Equivalent or similar to OECD 402; 16.4; Rabbit)
LC50 inhalation rat (mg/l)	73 mg/l/4h (Rat)
ATE CLP (oral)	5045,000 mg/kg bodyweight

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
ATE CLP (dermal)	12870,000 mg/kg bodyweight
ATE CLP (vapours)	73,000 mg/l/4h
ATE CLP (dust,mist)	73,000 mg/l/4h

sodium dodecylbenzenesulfonate (25155-30-0)	
LD50 oral rat	438 mg/kg (Rat)
ATE CLP (oral)	438,000 mg/kg bodyweight

butane (106-97-8)	
LC50 inhalation rat (mg/l)	658 mg/l/4h (Rat; Literature)
LC50 inhalation rat (ppm)	276000 ppm/4h (Rat; Literature)
ATE CLP (gases)	276000,000 ppmv/4h
ATE CLP (vapours)	658,000 mg/l/4h
ATE CLP (dust,mist)	658,000 mg/l/4h

propane (74-98-6)	
LC50 inhalation rat (mg/l)	513 mg/l/4h (Rat; Literature)
LC50 inhalation rat (ppm)	280000 ppm/4h (Rat; Literature)
ATE CLP (gases)	280000,000 ppmv/4h
ATE CLP (vapours)	513,000 mg/l/4h
ATE CLP (dust,mist)	513,000 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (repeated exposure)	: Not classified Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1. Toxicity

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
LC50 fishes 1	4200 mg/l (96 h; Rasbora heteromorpha; Flow-through system)
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna)
LC50 fish 2	9640 mg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 2	13299 mg/l (48 h; Daphnia magna)
Threshold limit algae 1	> 1000 mg/l (72 h; Scenedesmus subspicatus; Growth rate)
Threshold limit algae 2	1800 mg/l (72 h; Algae; Cell numbers)

sodium dodecylbenzenesulfonate (25155-30-0)	
LC50 fishes 1	0,99 mg/l (96 h; Pisces)
EC50 Daphnia 1	2,19 mg/l (96 h; Daphnia magna)
LC50 fish 2	6,9 mg/l (96 h; Rita rita)
Threshold limit algae 1	0,9 mg/l (96 h; Algae)



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butane (106-97-8)	
LC50 fishes 1	> 1000 mg/l (96 h; Pimephales promelas)
LC50 fish 2	6,0 mg/l (96 h; Pisces)
TLM fish 1	1000 mg/l (96 h; Pisces)
Threshold limit other aquatic organisms 1	0.6 - 0.9,504 h; Daphnia magna
Threshold limit algae 1	0.88 - 1.76,Algae

propane (74-98-6)	
LC50 fishes 1	13,0 mg/l (96 h; Pisces)
EC50 Daphnia 1	10 - 100 mg/l (48 h; Invertebrata)
EC50 other aquatic organisms 1	10 - 100 mg/l (Activated sludge; Estimated value)
LC50 fish 2	> 1000 mg/l (96 h; Pisces)
EC50 Daphnia 2	7 mg/l (Daphnia magna)
TLM fish 1	17.8 - 19.7,96 h; Pimephales promelas
Threshold limit algae 1	1.45 - 4.53,72 h; Algae
Threshold limit algae 2	8 mg/l (72 h; Algae)

### 12.2. Persistence and degradability

Noboclene Plus	
Persistence and degradability	Not established.

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in soil. Biodegradable in soil in anaerobic condition. No (test)data available on mobility of the substance.
Biochemical oxygen demand (BOD)	1,19 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	2,23 g O <sub>2</sub> /g substance
ThOD	2,40 g O <sub>2</sub> /g substance
BOD (% of ThOD)	0,49 % ThOD

sodium dodecylbenzenesulfonate (25155-30-0)	
Persistence and degradability	Readily biodegradable in water.

butane (106-97-8)	
Persistence and degradability	Readily biodegradable in water.

propane (74-98-6)	
Persistence and degradability	Readily biodegradable in water. Not applicable (gas). Photodegradation in the air.

### 12.3. Bioaccumulative potential

Noboclene Plus	
Bioaccumulative potential	Not established.

propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)	
Log Pow	0,05 (Experimental value)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

sodium dodecylbenzenesulfonate (25155-30-0)	
BCF fish 1	286 (Lepomis macrochirus)
BCF fish 2	130 (Leuciscus idus)
Log Pow	0,45 - 1,96
Bioaccumulative potential	Low bioaccumulation potential (BCF < 500).

butane (106-97-8)	
Log Pow	2,89 (Experimental value)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

propane (74-98-6)	
BCF fish 1	9 - 25 (Pisces)
Log Pow	2,28 (Calculated)
Bioaccumulative potential	Low bioaccumulation potential (Log Kow < 4).

### 12.4. Mobility in soil

### propan-2-ol, isopropyl alcohol, isopropanol (67-63-0)

Surface tension : 0,021 N/m (25 °C)

### butane (106-97-8)

Surface tension : < 0,1 N/m (0 °C)

### propane (74-98-6)

Surface tension : 0,016 N/m (-47 °C)

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

Other information : Avoid release to the environment.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
 Ecology - waste materials : Avoid release to the environment.  
 European List of Waste (LoW) code : 20 01 27\* - paint, inks, adhesives and resins containing dangerous substances

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

#### 14.1. UN number

UN-No. (ADR) : 1950

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : AEROSOLS  
 Transport document description (ADR) : UN 1950 AEROSOLS, 2.1, (D)

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

Class (ADR) : 2  
 Hazard labels (ADR) : 2.1



#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

##### 14.6.1. Overland transport

Classification code (ADR) : 5F  
 Special provisions (ADR) : 190, 327, 344, 625  
 Transport category (ADR) : 2  
 Tunnel restriction code (ADR) : D  
 Limited quantities (ADR) : 1L  
 Excepted quantities (ADR) : E0

##### 14.6.2. Transport by sea

No additional information available

##### 14.6.3. Air transport

No additional information available

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

Not applicable

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Noboclene Plus
3.a. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	butane
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	propan-2-ol, isopropyl alcohol, isopropanol

Contains no substance on the REACH candidate list

##### 15.1.2. National regulations

Water hazard class (WGK) : nwg - non-hazardous to water  
 WGK remark : No water pollutant (Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender).

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

### SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1	Flammable gases, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H225	Highly flammable liquid and vapour
H229	Pressurised container: May burst if heated
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
R11	Highly flammable
R12	Extremely flammable
R22	Harmful if swallowed
R36	Irritating to eyes
R37/38	Irritating to respiratory system and skin
R41	Risk of serious damage to eyes
R50	Very toxic to aquatic organisms
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable
F+	Extremely flammable



# Noboclene Plus Safety Data Sheet

according to Regulation (EC) No. 453/2010

N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

SDS EU ACCO

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*