

# BANG & BONSOMER EKOSPRAY OPEN CELL FX 09

#### Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 12/8/2023 Version: 1.0

SECTION 1: Identification of the substance	ce/mixture and of the company/undertaking
1.1. Product identifier	
	Mixture EKOSPRAY OPEN CELL FX 09
1.2. Relevant identified uses of the substance	or mixture and uses advised against
1.2.1. Relevant identified uses         Use of the substance/mixture       :         1.2.2. Uses advised against         No additional information available	Polyurethane
1.3. Details of the supplier of the safety data s	heet
Bang & Bonsomer Group Oy Itälahdenkatu 18 A P.O. Box 93 FIN 00211 Helsinki Finland T +3589681081 <u>REACH@bangbonsomer.com</u> , <u>http://www.bangbonsomer.com</u>	<u>ier.com</u>
1.4. Emergency telephone number	
No additional information available	
SECTION 2: Hazards identification	
2.1. Classification of the substance or mixture	
Classification according to Regulation (EC) No. 1272 Acute Tox. 4 (Oral) Skin Irrit. 2 Eye Dam. 1 Aquatic Chronic 3 Full text of hazard classes, H- and EUH-statements: see	H302 H315 H318 H412
Adverse physicochemical, human health and enviro	onmental effects

Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms (CLP)

Signal word (CLP) Contains

Hazard statements (CLP)



- : Danger
- : Reaction products of phosphoryl trichloride and 2-methylocirane; Isotridecanol, ethoxylated; Bis(Dimethylaminoethyl)ether; Ethanol, 2-[2-(dimethylamino)ethoxy]-
  - : H302 Harmful if swallowed.
  - H315 Causes skin irritation.
  - H318 Causes serious eye damage.
  - H412 Harmful to aquatic life with long lasting effects.

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Precautionary statements (CLP)	<ul> <li>P264 - Wash hands thoroughly after handling.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P301+P312 - IF SWALLOWED: Call doctor if you feel unwell.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P310 - Immediately call a POISON CENTER, a doctor.</li> <li>P330 - Rinse mouth.</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention.</li> <li>P362+P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P501 - Dispose of contents/container to waste in accordance with national/international regulations.</li> </ul>
2.3. Other hazards	

Other hazards which do not result in classification : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Isotridecanol, ethoxylated (69011-36-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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

#### 3.1. Substances

#### Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction products of phosphoryl trichloride and 2- methylocirane	CAS-No.: 1244733-77-4 EC-No.: 807-935-0 REACH-no: 01-2119486772- 26	≤ 30	Acute Tox. 4 (Oral), H302
Isotridecanol, ethoxylated	CAS-No.: 69011-36-5 EC-No.: 500-241-6	≤ 8.6	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 3, H412
Bis(Dimethylaminoethyl)ether	CAS-No.: 3033-62-3 EC-No.: 221-220-5 REACH-no: 01-2119972935- 21	≤ 2.6	Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Dermal), H311 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314

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Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
Ethanol, 2-[2-(dimethylamino)ethoxy]-	CAS-No.: 1704-62-7 EC-No.: 216-940-1 REACH-no: 01-2119976346- 26	≤ 1.7	Acute Tox. 4 (Dermal), H312 Skin Corr. 1B, H314 Eye Dam. 1, H318

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general First-aid measures after inhalation	<ul> <li>Call a poison center or a doctor if you feel unwell.</li> <li>Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.</li> </ul>
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and eas to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Call a poison center or a doctor if you feel unwell. Do not induce vomiting because of corrosive effects.
4.2. Most important symptoms and effec	ts, both acute and delayed
Symptoms/effects after skin contact Symptoms/effects after eye contact Symptoms/effects after ingestion	<ul> <li>Irritation. Corrosive.</li> <li>Causes serious eye damage.</li> <li>Harmful if swallowed.</li> </ul>

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

Treat symptomatically.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	<ul><li>Water spray. Dry powder. Foam. Carbon dioxide.</li><li>Do not use a heavy water stream.</li></ul>	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire:	: Toxic fumes may be released. Oxides of carbon. Fire will produce dense black smoke.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
Other information	: Collect contaminated extinguishing water separately and must not enter the sewage system.	

SECTION 6: Accidental release measures		
6.1. Personal precautions, protec	tive equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	

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6.2. Environmental precautions		
Avoid release to the environment. Do not allow into drains or water courses.		
6.3. Methods and material for containment and cleaning up		
Methods for cleaning up Other information	<ul><li>Take up liquid spill into absorbent material.</li><li>Dispose of materials or solid residues at an authorized site.</li></ul>	
6.4. Reference to other sections		
For further information refer to section 13.		

5 5	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Do not inhale vapour.
Hygiene measures	: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Storage conditions	: Store in a well-ventilated place. Keep cool. Store in tightly closed container. Protect from moisture.
Storage temperature	: 15 – 25 °C

7.3. Specific end use(s)

No additional information available

**SECTION 7: Handling and storage** 

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

Reaction products of phosphoryl trichloride and 2-methylocirane (1244733-77-4)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	22.6 mg/m <sup>3</sup>	
Long-term - systemic effects, dermal	2.08 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	8.2 mg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	5.6 mg/m³	
Long-term - systemic effects, inhalation	1.45 mg/m³	
Long-term - systemic effects, dermal	1.04 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.32 mg/l	

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Reaction products of phosphoryl trichloride and 2-methylocirane (1244733-77-4)		
0.032 mg/l		
PNEC (Sediment)		
11.5 mg/kg dwt		
1.15 mg/kg dwt		
PNEC (Soil)		
0.34 mg/kg dwt		
PNEC (Oral)		
< 11.6 kg/kg food		
PNEC (STP)		
19.1 mg/l		

#### 8.1.5. Control banding

No additional information available

8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Ensure adequate ventilation. Always wash hands after handling the product. Avoid contact with skin and eyes. Do not drink, eat or smoke in the workplace. Do not inhale gases/fumes/aerosols. Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

Eye protection: Protective goggles (EN 166)

#### 8.2.2.2. Skin protection

# Skin and body protection:

Use chemically protective clothing

#### Hand protection:

Gloves. Gloves must be discarded and replaced if there is any indication of degradation or chemical breakthrough

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
	Nitrile rubber (NBR), Neoprene		0,35		EN ISO 374

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

In case of inadequate ventilation wear respiratory protection.

Respiratory protection			
Device	Filter type	Condition	Standard
	Туре А		

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#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### SECTION 9: Physical and chemical properties

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

Physical state		Liquid
Colour		Yellow to brown.
Odour		Irritating.
Odour threshold		Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	Not available
Flammability	:	Non flammable.
Explosive limits	:	Not available
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
рН	:	Not available
Viscosity, kinematic	:	Not available
Viscosity, dynamic	:	200 – 450 mPa·s
Solubility	:	insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	1.05 – 1.15 g/cm <sup>3</sup> 25 C
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Particle size	:	Not applicable
Particle size distribution	:	Not applicable
Particle shape	:	Not applicable
Particle aspect ratio	:	Not applicable
Particle aggregation state	:	Not applicable
Particle agglomeration state	:	Not applicable
Particle specific surface area	:	Not applicable
Particle dustiness	:	Not applicable

#### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

#### **10.2. Chemical stability**

Hygroscopic.

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10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).
10.5. Incompatible materials
Oxidising agents.
10.6. Hazardous decomposition products

On combustion, forms: carbon oxides (CO and CO2).

SECTION 11: Toxicological information		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity (oral): Harmful if swallowed.Acute toxicity (dermal): Not classifiedAcute toxicity (inhalation): Not classified		
EKOSPRAY OPEN CELL FX 09		
ATE CLP (oral)	500 mg/kg bodyweight	
Reaction products of phosphoryl trichloride	and 2-methylocirane (1244733-77-4)	
LD50 oral rat	500 – 632 mg/kg	
LD50 dermal rat	> 2000 mg/kg	
LC50 Inhalation - Rat	> 7 mg/l	
Isotridecanol, ethoxylated (69011-36-5)		
LD50 oral rat	500 – 2000 mg/kg	
LD50 dermal rabbit	> 2000 mg/kg	
Bis(Dimethylaminoethyl)ether (3033-62-3)		
LD50 oral rat	910 mg/kg	
LD50 dermal rabbit	238 mg/kg	
LC50 Inhalation - Rat	177 ppm, 6h	
Ethanol, 2-[2-(dimethylamino)ethoxy]- (1704-62-7)		
LD50 oral rat	2460 µl/kg	
Skin corrosion/irritation       :         Serious eye damage/irritation       :	Causes skin irritation. Causes serious eye damage.	
Respiratory or skin sensitisation :	Not classified	
Germ cell mutagenicity :	Not classified	
Carcinogenicity : Reproductive toxicity :	Not classified Not classified	
STOT-single exposure :	Not classified	
STOT-repeated exposure :	Not classified	
Isotridecanol, ethoxylated (69011-36-5)		
LOAEL (oral, rat, 90 days)	50 mg/kg bodyweight/day 600 days	
Aspiration hazard :	Not classified	

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#### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### 11.2.2. Other information

No additional information available

# SECTION 12: Ecological information 12.1. Toxicity Ecology - general : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term : (acute)	Not classified		
Hazardous to the aquatic environment, long–term : Harmful to aquatic life with long lasting effects. (chronic)			
Reaction products of phosphoryl trichloride a	Ind 2-methylocirane (1244733-77-4)		
LC50 - Fish [1]	51 mg/l		
EC50 - Crustacea [1]	131 mg/l		
EC50 72h - Algae [1]	82 mg/l		
Isotridecanol, ethoxylated (69011-36-5)			
LC50 - Fish [1]	1 – 10 mg/l Cyprinus carpio, OECD 203		
EC50 - Crustacea [1]	1 – 10 mg/l Daphnia magna, OECD Test No. 202		
EC50 72h - Algae [1]	1 – 10 mg/l Desmodesmus subspicatus 72h OECD 201		
NOEC chronic crustacea	> 1 mg/l Daphnia magna		

#### 12.2. Persistence and degradability

Isotridecanol, ethoxylated (69011-36-5)		
Biodegradation	> 60 % (672h OECD 301B)	
12.3. Bioaccumulative potential		
Isotridecanol, ethoxylated (69011-36-5)		
Partition coefficient n-octanol/water (Log Kow) 6.4		
12.4. Mobility in soil		
EKOSPRAY OPEN CELL FX 09		
Ecology - soil insoluble in water.		
Isotridecanol, ethoxylated (69011-36-5)		
Mobility in soil 2.645		

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12.5. Results of PBT and vPvB assessment	
Component	
Isotridecanol, ethoxylated (69011-36-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
12.6. Endocrine disrupting properties	
Adverse effects on the environment caused by endocrine disrupting properties	: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7. Other adverse effects	
Other adverse effects	: Avoid discharge to the environment, Do not allow into drains or water courses.

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Waste treatment methods	· Dispose of contents/container in accordance with licensed collector's sorting instructions	

## **SECTION 14: Transport information**

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

ADR	IMDG	ΙΑΤΑ	RID		
14.1. UN number or ID number	14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated		
14.2. UN proper shipping name	14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated		
14.3. Transport hazard class(e	14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated		
14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated		
14.5. Environmental hazards					
Not regulated	Not regulated	Not regulated	Not regulated		
No supplementary information available					

14.6. Special precautions for user

Overland transport Not regulated

Transport by sea Not regulated

Air transport Not regulated

Rail transport Not regulated

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#### 14.7. Maritime transport in bulk according to IMO instruments

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

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### 15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### **SECTION 16: Other information**

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	

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Abbreviations and acronyms:		
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Other information

: 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.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2

Safety Data Sheet (SDS), EU

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