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

#### **1.1 Product identifier**

Trade name	:	Floranid® N31 31-0-0
REACH Registration Number	:	01-2119457269-28-0001
Substance name	:	N,N"-(isobutylidene)diurea
CAS-No.	:	6104-30-9

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

Use of the Sub- : Fertiliser stance/Mixture

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

Company	:	COMPO EXPERT GmbH Krögerweg 10 D-48155 Münster
Telephone	:	+49 (0) 251 29 79 81 – 000
Telefax	:	+49 (0) 251 29 79 81 - 111
E-mail address of person responsible for the SDS	:	info@compo-expert.com

#### **1.4 Emergency telephone number**

GBK GmbH - Global Regulatory Compliance - 24h Telephone:+49 (0) 6132 - 84463 Schweiz/Suisse/Svizerra: Tox Info Suisse Telephone:145

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

#### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required



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#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: 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.

Toxicological information: 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.

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

3.1 Substances		
Substance name	:	N,N"-(isobutylidene)diurea
CAS-No.	:	6104-30-9
Chemical nature	:	Inorganic fertiliser
Components		
Remarks	:	No hazardous ingredients

# **SECTION 4: First aid measures**

4.1 Description of first aid measures				
General advice :	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.			
Protection of first-aiders :	First Aid responders should pay attention to self-protection and use the recommended protective clothing If potential for exposure exists refer to Section 8 for specific personal protective equipment.			
If inhaled :	If breathed in, move person into fresh air. If symptoms persist, call a physician.			
In case of skin contact :	Wash off with soap and water.			
In case of eye contact :	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.			

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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			If eye irritation pe	rsists, consult a specialist.		
lf sw	allowed	:	Clean mouth with Obtain medical a	water and drink afterwards plenty of water. ttention.		
4.2 Most	important symptoms a	nd e	effects, both acute	e and delayed		
Symptoms		:		Ingestion may provoke the following symptoms: Methaemoglobinemia		
4.3 Indica	ation of any immediate	me	dical attention and	d special treatment needed		
Trea	tment	:	Treat symptomat	ically.		
SECTIO	N 5: Firefighting mea	sur	es			
5.1 Extin	guishing media					
Suita	able extinguishing media	:		g measures that are appropriate to local cir- the surrounding environment.		
Linei	uitable extinguishing		High volume wate	-		
medi		•	Carbon dioxide ( Foam Sand			
5.2 Speci	ial hazards arising from	n the	e substance or mi	xture		
Spec fighti	sific hazards during fire- ng	:	and vapours.	osition can lead to release of irritating gases off from fire fighting to enter drains or water		
Haza ucts	ardous combustion prod-	:	Nitrogen oxides ( Carbon oxides	NOx)		
5.3 Advic	e for firefighters					
	cial protective equipment refighters	:	Wear self-contair essary.	ned breathing apparatus for firefighting if nec-		
Furth	ner information	:	must not be disch Fire residues and	ated fire extinguishing water separately. This harged into drains. I contaminated fire extinguishing water must accordance with local regulations.		

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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# **SECTION 6:** Accidental release measures

6.1 Personal precautions, protecti	ve equipment and emergency procedures
Personal precautions	<ul> <li>Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before re-use. Avoid breathing dust. For personal protection see section 8. For disposal considerations see section 13.</li> </ul>
6.2 Environmental precautions	
Environmental precautions	<ul> <li>Do not flush into surface water or sanitary sewer system.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>If the product contaminates rivers and lakes or drains inform respective authorities.</li> </ul>

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

Methods for cleaning up :	Pick up and transfer to properly labelled containers.
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# 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

# **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Advice on safe handling	:	Avoid contact with skin and eyes. Wear personal protective equipment. Keep away from combustible material. Keep away from heat and sources of ignition. Smoking, eating and drinking should be prohibited in the ap- plication area. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	During processing, dust may form explosive mixture in air. The product should only be used in areas from which all na- ked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
Hygiene measures	:	Keep away from food, drink and animal feedingstuffs. Wash hands before eating, drinking, or smoking. Wash hands before breaks and at the end of workday.
Dust explosion class	:	St1

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

Further information on stor- age conditions	:	Keep away from sources of ignition - No smoking. Keep away from direct sunlight. Protect from moisture.
Advice on common storage	:	Keep away from combustible materials. Keep away from strong acids. Keep away from strong bases. Keep away from food, drink and animal feedingstuffs.
Further information on stor- age stability	:	Protect from frost, heat and sunlight.
7.3 Specific end use(s)		

Specific use(s) : Not relevant

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

### **Occupational Exposure Limits**

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
N,N''- (isobutylidene)diurea	Workers	Skin contact	Long-term systemic effects	37,5 mg/kg
	Workers	Inhalation	Long-term systemic effects	66,12 mg/m3
	Consumers	Skin contact	Long-term systemic effects	18,75 mg/kg
	Consumers	Inhalation	Long-term systemic effects	16,31 mg/m3
	Consumers	Ingestion	Long-term systemic effects	9,37 mg/kg

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
N,N"-(isobutylidene)diurea	Fresh water	0,5 mg/l
	Marine water	0,05 mg/l
	Fresh water sediment	1,76 mg/l
	Marine sediment	0,176 mg/l
	Soil	10,7 mg/l
	Behaviour in waste water treatment plants	640 mg/l

#### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Ma	protection terial ective	:	Gloves Equipment should	d conform to EN 374
Re	marks	:	•	a mixture of several substances, the dura- materials cannot be calculated in advance ted before use.
Skin a	nd body protection	:	Long sleeved clot	hing
Respir	ratory protection	:	<ul> <li>In the case of dust or aerosol formation use respirator wit approved filter.</li> <li>Equipment should conform to EN 14387</li> </ul>	
Filt	er type	:	Filter type P	
Protec	tive measures	:	practice.	ance with good industrial hygiene and safety ed clothing before re-use.

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Physical state	:	solid
Colour	:	white
Odour	:	very faint
Melting point/range	:	not determined
Boiling point/boiling range	:	not determined
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Not applicable

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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	Decomp	position temperature	:	> 130 °C	
	рН		:	6 - 7 (20 °C) Concentration: 1	00 g/l
	Solubilit Wate	y(ies) er solubility	:	0,3 - 3 g/l(20 °C soluble	;)
	Partitior octanol/	n coefficient: n- /water	:	Not applicable	
	Density		:	No data available	9
	Bulk de	nsity	:	500 - 700 kg/m³	
92	Other in	formation			
0.2	Explosiv		:	Dust may form e	xplosive mixture in air.
	Self-ign	ition	:	not auto-flammal	ble
	Dust de	flagration index (Kst)	:	122 m.b_/s	
	Dust ex	plosion class	:	St1	
	Minimur	n ignition energy	:	63 - 152 mJ	

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

:

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions

Dust can form an explosive mixture in air. Heating can release hazardous gases.

10.4 Conditions to avoid

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Condi	tions to avoid	: Hot surface( Direct sourc	,	
	npatible materials ials to avoid	: Strong oxidi	zing agents	
	rdous decomposition dous decomposition cts	products : ammonia Carbon diox	ide (CO2)	

# **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

#### Respiratory or skin sensitisation

#### Skin sensitisation

Based on available data, the classification criteria are not met.

#### Respiratory sensitisation

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### **Reproductive toxicity**

Based on available data, the classification criteria are not met.

#### STOT - single exposure

Based on available data, the classification criteria are not met.

#### STOT - repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration toxicity

Based on available data, the classification criteria are not met.

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### 11.2 Information on other hazards

### **Endocrine disrupting properties**

#### Product:

Assessment

: 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.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

No data available

## 12.2 Persistence and degradability

No data available

# 12.3 Bioaccumulative potential

No data available

## 12.4 Mobility in soil

No data available

# 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# 12.6 Endocrine disrupting properties

#### Product:

Assessment

: 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

No data available

# **SECTION 13: Disposal considerations**

#### **13.1 Waste treatment methods**

Product

: Do not flush into surface water or sanitary sewer system.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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		Waste codes s	ccordance with local regulations. hould be assigned by the user based on the which the product was used.
Conta	aminated packaging		ng contents. ers should be taken to an approved waste han- cycling or disposal.

# **SECTION 14: Transport information**

14.1 UN number or ID number		
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA_P	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA_P	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA_P	:	Not regulated as a dangerous good
14.4 Packing group		
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
IATA_P (Passenger)	:	Not regulated as a dangerous good
14.5 Environmental hazards		

# 14.5 Environmental hazards

Not regulated as a dangerous good

## 14.6 Special precautions for user

Not applicable

# 14.7 Maritime transport in bulk according to IMO instruments

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Regu Rema	llatory basis arks	: IMSBC Code : Product is not a	allowed to be transported in bulk.	

# **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	Not applicable

### 15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

# **SECTION 16: Other information**

### Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Agency





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Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

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