Safety Data Sheet

according to Regulation (EC) No 1907/2006

Pronova Fugen Perfect

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

1.1. Product identifier

Pronova Fugen Perfect

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

Use of the substance/mixture

Water-based surface treatment agents, solvent-free
Relevant identified uses see section 16.

Uses advised against

None, use in accordance with instructions.

1.3. Details of the supplier of the safety data sheet

Company name:	Pronova Dichtstoffe GmbH & Co. KG		
Street:	Rudolf-Diesel-Straße 12		
Place:	D-55543 Bad Kreuznach		
Telephone:	+49 671 920015-0	Telefax:	+49 671 920015-5020
E-mail:	info@pronova-dichtstoffe.de		
Contact person:	Abteilung Regulatory Affairs	Telephone:	+49 671 870-310
E-mail:	info@pronova-dichtstoffe.de		
Internet:	www.pronova-dichtstoffe.de		

1.4. Emergency telephone number:

00 800 63333782 Mon.–Fri. 7.30 a.m. – 8.00 p.m., Sat. 9.00 a.m. – 8.00 p.m.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Regulation (EC) No 1272/2008

Special labelling

EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
EUH210	Safety data sheet available on request.

2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Toxicological information: The substance/mixture does not contain any components that are classified as hazardous according to
REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.
Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more have endocrine disrupting properties.

Environmental information: The substance/mixture does not contain any components that are classified as hazardous according to
REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.
Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% or more have endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			< 0.0015 %
		613-167-00-5	01-2120764691-48	
	Acute Tox. 2, Acute Tox. 2, Acute Tox. 3, Skin Corr. 1C, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H310 H301 H314 H318 H317 H400 H410 EUH071			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
55965-84-9		reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	< 0.0015 %
	inhalation: ATE = 0,5 mg/l (vapours); inhalation: LC50 = 0,33 mg/l (dusts or mists); dermal: LD50 = >75 mg/kg; oral: LD50 = 49,6-75 mg/kg Skin Corr. 1C; H314: >= 0,6 - 100 Skin Irrit. 2; H315: >= 0,06 - < 0,6 Eye Dam. 1; H318: >= 0,6 - 100 Eye Irrit. 2; H319: >= 0,06 - < 0,6 Skin Sens. 1A; H317: >= 0,0015 - 100 Aquatic Acute 1; H400: M=100 Aquatic Chronic 1; H410: M=100		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing and wash it before reuse. If unconscious but breathing normally, place in recovery position and seek medical advice. In case of allergic symptoms, especially in the breathing area, seek medical advice immediately. When in doubt or if symptoms are observed, get medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Do not wash with: Solvents/Thinner. In case of skin irritation, consult a physician.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

Do NOT induce vomiting. Call a physician immediately. Rinse mouth immediately and drink plenty of water.

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

No known symptoms to date.

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

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide, Carbon dioxide (CO2).

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers.

Additional information

Do not allow run-off from fire-fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

With water, a slippery film is created. Provide adequate ventilation. See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Other information

Take up mechanically, placing in appropriate containers for disposal.
Methods and material for containment and cleaning up: Sand Sawdust Universal binder

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8
Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations. Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray. Personal protection equipment: see section 8

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Advice on general occupational hygiene

Provide fresh air. When using do not eat, drink or smoke. Wash hands before breaks and after work. Make available sufficient washing facilities

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Always close containers tightly after the removal of product. Ensure adequate ventilation of the storage area.

Hints on joint storage

Do not store together with: alkali

Further information on storage conditions

Keep/Store only in original container. Protect from direct sunlight. Avoid heat and frost.

7.3. Specific end use(s)

Water-based surface treatment agents, solvent-free

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Name of agent			
DNEL type		Exposure route	Effect	Value
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			
Worker DNEL, long-term		inhalation	local	0,02 mg/m³
Worker DNEL, acute		inhalation	local	0,04 mg/m³
Consumer DNEL, long-term		inhalation	local	0,02 mg/m³
Consumer DNEL, acute		inhalation	local	0,04 mg/m³
Consumer DNEL, long-term		oral	systemic	0,11 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	0,09 mg/kg bw/day

PNEC values

CAS No	Name of agent	
Environmental compartment		Value
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	
Freshwater		0,0039 mg/l
Freshwater (intermittent releases)		0,0039 mg/l
Marine water		0,0039 mg/l
Marine water (intermittent releases)		0,0039 mg/l
Freshwater sediment		0,027 mg/kg
Marine sediment		0,027 mg/kg
Microorganisms in sewage treatment plants (STP)		0,23 mg/l
Soil		0,01 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Keep an eye wash bottle or eye wash station in the work area

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.
Wear protective glasses during application with a spray gun .- EN ISO 16321

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. Replace when worn. See information supplied by the manufacturer. Category III protective gloves (EN 374) must be worn. Comply with ruling 195 of Professional Association on "Usage of Protective Gloves"

Suitable material: NBR (Nitrile rubber), CR (polychloroprene, chloroprene rubber), Butyl caoutchouc (butyl rubber), FKM (fluoro rubber) neoprene. Wear cotton undermitten if possible.
Breakthrough time: >480 min. Thickness of the glove material: >0,5 mm
Unsuitable material: leather, fabric.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Light protective clothing. Chemical resistant safety shoes- EN ISO 20345

Respiratory protection

In case of spray processing: Filtering device (full mask or mouthpiece) with filter: A2/P2
For grinding work: Filtering device (full mask or mouthpiece) with filter: P2
The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace. EN 137

Environmental exposure controls

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	sweetish
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	120 °C
Flammability	
Solid/liquid:	non-flammable
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	na
Auto-ignition temperature:	not applicable
Decomposition temperature:	not applicable
pH-Value (at 20 °C):	na
Viscosity / kinematic:	na
Water solubility:	miscible
Dissolution rate:	not applicable
Partition coefficient n-octanol/water:	Not applicable for mixtures
Vapour pressure:	not determined
Density (at 20 °C):	1 g/cm³
Particle characteristics:	Liquid, not applicable

9.2. Other information

Information with regard to physical hazard classes

Sustained combustibility:	No sustained combustibility
Self-ignition temperature	
Solid:	not applicable
Gas:	not applicable

Other safety characteristics

Solvent separation test:	not applicable
Solvent content:	water: 98,00 %
Sublimation point:	not applicable
Softening point:	not applicable
Pour point:	not applicable
Flow time:	na

Further Information

none

SECTION 10: Stability and reactivity

10.1. Reactivity

This material is considered to be non-reactive under normal use conditions.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidising agent, Strong acid, Strong alkali

10.4. Conditions to avoid

Do not dry up the product. Avoid heat and frost.

10.5. Incompatible materials

Materials that react with water. Alkali (lye) Acid Oxidising agent.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide Nitrogen oxides (NOx)

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.

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)					
	oral	LD50 mg/kg	49,6-75	Rat		
	dermal	LD50 mg/kg	>75	Rabbit		
	inhalation vapour	ATE	0,5 mg/l			
	inhalation (4 h) dust/mist	LC50	0,33 mg/l	Rat		

Irritation and corrosivity

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.

Sensitising effects

Based on available data, the classification criteria are not met.
Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

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 hazard

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

11.2. Information on other hazards

Endocrine disrupting properties

Based on available data, the classification criteria are not met.
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)						
	Acute fish toxicity	LC50	0,19 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		OECD 202
	Acute algae toxicity	ErC50	0,027 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50	0,16 mg/l	48 h	Daphnia magna (Big water flea)		OECD 203
	Fish toxicity	NOEC	0,05 mg/l	14 d	Oncorhynchus mykiss (Rainbow trout)		
	Algae toxicity	NOEC	0,0012 mg/l	3 d	Pseudokirchneriella subcapitata		OECD 201
	Crustacea toxicity	NOEC	0,1 mg/l	21 d	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	EC50	7,92 mg/l ( )	3 h	Activated sludge		OECD 209

12.2. Persistence and degradability

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

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)			
	OECD 301D/ EEC 92/69/V, C.4-E	>60%	28	
	Readily biodegradable (according to OECD criteria).			
	OECD 302B/ ISO 9888/ EEC 92/69/V, C.9	100%	28	
	OECD 303/ EEC 92/69/V, C10	>80%	28	

12.3. Bioaccumulative potential

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

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	<3

BCF

CAS No	Chemical name	BCF	Species	Source
55965-84-9	reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	<100		

12.4. Mobility in soil

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

12.7. Other adverse effects

There are no data available on the mixture itself.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains.
Dispose according to legislation.
Dried out material residue can be disposed of with household waste. For liquid material residue, contact your local waste collection provider.

List of Wastes Code - residues/unused products

080112 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish other than those mentioned in 08 01 11

List of Wastes Code - contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of. Completely emptied packages can be recycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 75

Additional information

This product is a “treated article without a primary biocidal function” (Article 58 in conjunction with Article 3(1)(a)). The product contains biocides with preservative action to combat microbial decay (PT6).

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

Additional information

This safety data sheet was prepared in accordance with Regulation (EU) 2020/878.

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 7,8,9,15.

Abbreviations and acronyms

EWG - Europäische Wirtschaftsgemeinschaft; EG - Europäische Gemeinschaft; CLP- Regulation on Classification, Labelling and Packaging of Substances and Mixtures; TRGS - Technische Regeln für Gefahrstoffe; PBT - persistenter bioakkumulierbarer und toxischer Stoff; vPvB - very persistent very bioaccumulative; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals; VOC - Flüchtige organische Verbindung WGK - Wassergefährdungsklasse

Key literature references and sources for data

Sources: http://www.gisbau.de http://www.baua.de
https://echa.europa.eu/de/information-on-chemicals

Relevant H and EUH statements (number and full text)

H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.
EUH208	Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible

for adhering to existing laws and regulations.

Instruction on hazards and protective measures based on the operating instructions in accordance with TRGS 555.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	Coatings and paints, thinners, paint removers	PW, C	19	9a	10, 11	10a, 11a	-	-	Sprüh/Rol/St

LCS: Life cycle stages
SU: Sectors of use
PC: Product categories
PROC: Process categories
ERC: Environmental release categories
AC: Article categories
TF: Technical functions

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)