

# S 2856 SIGNOCRYL T

Creation date 24th January 2007

Revision date 21st November 2022 Version 3.0

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

L.1. Product identifier S 2856 SIGNOCRYL T

Substance / mixture mixture

UFI V2WV-N07C-P00A-YMX0

Other mixture names

Road marking paint

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

### Mixture's intended use

Varnish. For professional use only.

Main intended use

PC-PNT-3 Paints/coatings - Protective and functional

### Mixture uses advised against

The product should not be used in ways other then those referred in Section 1.

Exposure scenario is attached to the Safety Data Sheet.

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

### Manufacturer

Name or trade name

BARVY A LAKY TELURIA,s.r.o.

č.p.1, Skrchov, 679 61

Czech Republic

 Identification number (CRN)
 43420371

 VAT Reg No
 CZ43420371

 Phone
 +420 516 474 211

 E-mail
 info@teluria.cz

 Web address
 http://www.bal.cz

### Competent person responsible for the safety data sheet

Name BARVY A LAKY TELURIA,s.r.o.

E-mail info@teluria.cz

### 1.4. Emergency telephone number

European emergency number: 112

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is classified as dangerous.

Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361d STOT RE 2, H373 Aquatic Chronic 3, H412

Full text of all classifications and hazard statements is given in the section 16.

### Most serious adverse physico-chemical effects

Highly flammable liquid and vapour.

### Most serious adverse effects on human health and the environment

Causes skin irritation. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

Page 1/16



# S 2856 SIGNOCRYL T

Creation date 24th January 2007

Revision date 21st November 2022 Version 3.0

### 2.2. Label elements

### **Hazard pictogram**







### Signal word

Danger

### **Hazardous substances**

toluene

#### **Hazard statements**

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.
H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements** 

Y102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P261 Avoid breathing vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a doctor if you feel unwell.

P501 Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.

**Supplemental information** 

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

Density 1,40 g/cm<sup>3</sup> at 23 °C (EN ISO 2811-1)

 VOC
 0,34 kg/kg

 TOC
 0,31 kg/kg

 Dry matter
 44 % volume

Max. VOC content in the product in its ready to use

condition

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Substances are neither listed in Annex XIV of REACH nor on the REACH candidate list of substances of very high concern (SVHC).



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

#### 3.2. Mixtures

### **Chemical characterization**

Dispersion of pigments and fillers in a solution of alkyd resin and vinyl copolymer in organic solvents with addition of additives.

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-021-00-3 CAS: 108-88-3 EC: 203-625-9 Registration number: 01-2119471310-51	toluene	<34	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361d STOT RE 2, H373	2, 3
Index: 022-006-00-2 CAS: 13463-67-7 EC: 236-675-5 Registration number: 01-2119489379-17-0013	titanium dioxide	5		1
CAS: 105-44-2 EC: 203-298-2 Registration number: 01-2120789425-42- 0000	4-methylpentan-2-one oxime	0.5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319	

### Notes

- Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 μm.
- 2 A substance for which exposure limits are set.
- 3 The use of the substance is restricted by Annex XVII of REACH Regulation

Full text of all classifications and hazard statements is given in the section 16.

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

### If inhaled

Terminate the exposure immediately; move the affected person to fresh air. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

### If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible. Soap, soap solution or shampoo should be used if there is no skin injury. Provide medical treatment if skin irritation persists.

Page 3/16



according to Regulation (EC) No 1907/2006 (REACH) as amended					
	S 2856 S	IGNOCRYL T			
Creation date	24th January 2007				
Revision date	21st November 2022	Version	3.0		

### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

#### If swallowed

Provide medical treatment. DO NOT INDUCE VOMITING! Rinse out the mouth with clean water. For persons with no symptoms, call the Toxicological Information Centre to decide about the need of medical treatment; provide information about the substances or composition of the product from the original packaging or the Safety Data Sheet of the product.

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

#### If inhaled

Cough, headache. May cause drowsiness or dizziness.

#### If on skin

Causes skin irritation.

#### If in eyes

Not expected.

### If swallowed

Irritation, nausea.

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

Symptomatic treatment. If you see a doctor, take this safety data sheet with you.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

# Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

### Unsuitable extinguishing media

Water - full jet.

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

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

### **SECTION 6: Accidental release measures**

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

For workers apart from emergency teams: Avoid inhalation of vapour, prevent skin and eye contact. Wear appropriate protective clothing and gloves. Wear eye protection and face shield if necessary. Use suitable respiratory protection. In closed spaces, ensure fresh air supply. Eliminate all ignition sources. No smoking and no open fire. Keep unnecessary personnel away.

For members of emergency teams: Use appropriate personal protective equipment – protective clothing with antistatic finish and impermeable work shoes. Treat unprotected skin with barrier cream. Anti-chemical protective gloves. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

### 6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. If possible prevent leakage, close container and place damaged container in protective container.

Page 4/16



according to Regulation (EC) No 1907/2006 (REACH) as amended							
	S 2856 SIGNOCRYL T						
Creation date Revision date	24th January 2007 21st November 2022	Version	3.0				

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. In the event of leakage of the substantial amount of the product, inform fire brigade and other competent bodies. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

### 6.4. Reference to other sections

See the Section 7, 8 and 13.

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

### 7.1.1. General health measures

Use the product after due familiarization with its hazard characteristics and proper training or training in its safe use. Do not eat, drink, smoke on the site. Wash your hands and other contaminated parts of body by soap and water before eating and after the use of product is finished. Abide by requirements on personal hygiene when working with hazardous chemical products.

Use technical equipment on the site to control human and environment exposure. Regularly inspect the equipment, ensure cleaning, timely maintenance and permanent functionality. When working, use the recommended personal protective equipment listed in 8.2 of the Safety Data Sheet and in Annex to the Safety Data Sheet. Keep the protective clothing and protective equipment sound and clean. Immediately replace the damaged protective aids for sound ones. Keep the site, tools and aids clean and in sound state. On the site, keep the product in labelled containers or tanks. Store product waste and wastes contaminated by the product in suitable and properly labelled vessels located on designated marked and protected places. Ensure long-term storing of wastes containing the product outside the site.

### 7.1.2. Fire precautions

When using the product, prevent potential ignition or explosion of the mixture of product vapour and air caused by contact with open flame, sparks, extremely hot surfaces, electrostatic discharges. Do not smoke on the site, use non-sparking tools. Places with increased occurrence of the vapour-air mixture need to be ventilated to prevent formation of explosive mixtures. Solvent vapours are heavier than air. The site should be protected from electrostatic discharges.

### 7.1.3. Environmental precautions

Handle the product on a site technically adapted to avoid accidental leakage to sewerage systems, water or soil. Product waste and wastes contaminated by the product to be disposed of as hazardous waste. Waste water contaminated by the product may only be discharged to water reservoirs after the product components are properly removed in a waste water treatment plant or in other appropriate treatment plant able to remove drifted product components from water. Do not pour the product to waste water. Emissions of solvent from point sources are subjected to control requirements acc. to air protection regulations.

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

Store the product in properly marked, closed containers in well ventilated spaces at 5-25 °C. The storages must meet the requirements on storing of flammable liquids and substances hazardous for aquatic life and soil. Protect from heat, hot surfaces, sparks, open flame and other ignition sources. No smoking. Store away from oxidising substances and strong acids. Do not store with food, drinks, feed material, medicines. Storages should be protected from static electricity. First aid kit and water suitable for eye rinsing should be available. Keep away from products that are corrosive to metals (eg acids or pool chemicals).



according to Regulation (EC) No 1907/2006 (REACH) as amended

S 2856 SIGNOCRYL T

Creation date 24th January 2007
Revision date 21st November 2022 Version 3.0

Storage class 3A - Flammable liquids (flash point below 55 °C)

Storage temperature min 2 °C, max 25 °C

### The specific requirements or rules relating to the substance/mixture

The product contains titanium dioxide. Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist. Solvent vapours are heavier than air and accumulate especially near the floor where they may form an explosive mixture with the air.

### 7.3. Specific end use(s)

Use in coating compositions was assessed for the indiviual substances of the mixture. Conditions of safe use of the registered coating composition components specified in exposure scenarios to SDSs of the components are incorporated to this Safety Data Sheet and its Annex.

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

### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

### **European Union**

### Commission Directive 2006/15/EC

Substance name (component)	Туре	Value	Note
	OEL 8 hours	192 mg/m <sup>3</sup>	
	OEL 8 hours	50 ppm	
toluene (CAS: 108-88-3)	OEL 15 minutes	384 mg/m³	Skin
	OEL 15 minutes	100 ppm	

### DNFI

### titanium dioxide

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
	Inhalation	10 mg/m <sup>3</sup>	Systemic chronic effects		



according to Regulation (EC) No 1907/2006 (REACH) as amended

S 2856 SIGNOCRYL T

Creation date 24th January 2007
Revision date 21st November 2022 Version 3.0

### toluene

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	192 mg/m <sup>3</sup>	Systemic chronic effects		
Workers	Inhalation	384 mg/m <sup>3</sup>	Systemic acute effects		
Workers	Inhalation	192 mg/m <sup>3</sup>	Local chronic effects		
Workers	Inhalation	384 mg/m <sup>3</sup>	Local acute effects		
Workers	Dermal	384 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	56.5 mg/m <sup>3</sup>	Systemic chronic effects		
Consumers	Inhalation	226 mg/m <sup>3</sup>	Systemic acute effects		
Consumers	Inhalation	56.5 mg/m <sup>3</sup>	Systemic acute effects		
Consumers	Inhalation	226 mg/m <sup>3</sup>	Local acute effects		
Consumers	Dermal	226 mg/kg bw/day	Systemic chronic effects		
Consumers	Oral	8.13 mg/kg bw/day	Systemic chronic effects		

# PNEC

### titanium dioxide

Route of exposure	Value	Value determination	Source
Freshwater environment	0.127 mg/l		
Seawater	1 mg/l		
Water (intermittent release)	0.61 mg/l		
Freshwater sediment	1000 mg/kg of dry substance of sediment		
Sea sediments	100 mg/kg of dry substance of sediment		
Soil (agricultural)	100 mg/kg of dry substance of soil		
Microorganisms in wastewater treatment plants	100 mg/l		
Oral	1667 mg/kg of food		savci

### toluene

Route of exposure	Value	Value determination	Source
Freshwater environment	0.68 mg/l		
Seawater	0.68 mg/l		
Water (intermittent release)	0.68 mg/l		
Microorganisms in wastewater treatment plants	13.61 mg/l		



according to Regulation (EC) No 1907/2006 (REACH) as amended							
S 2856 SIGNOCRYL T							
Creation date	24th January 2007						
Revision date	21st November 2022	Version	3.0				

#### toluene

Route of exposure	Value	Value determination	Source
Freshwater sediment	16.39 mg/kg of dry substance of sediment		
Sea sediments	16.39 mg/kg of dry substance of sediment		
Soil (agricultural)	2.89 mg/kg of dry substance of soil		

### 8.2. Exposure controls

Conditions of safe use of the registered product composition components specified in exposure scenarios to Safety Data Sheets of the components are given in Annex of the SDS, including the required additional measures restricting the exposure – see the exposure scenarios for the intended uses of the product.

General safety and hygienic measures. When working, do not eat, drink, smoke. Before the break and after the work, hands should be washed with soap and hot water, treated with barrier cream. Overall and local ventilation, effective extraction.

#### Eye/face protection

Protective goggles (closed eye protection) resistant to organic solvent or face shield.

### Skin protection

Skin protection: Protective clothes with antistatic finish, protective shoes; treat unprotected skin with barrier cream. Hand protection: Chemical resistant protective gloves (EN 374-1:2003). Suitable material – PVA, fluoroelastomere and others, time of penetration corresponding to > 480 minutes. The time of penetration specified by the manufacturer should be followed and the glove replaced after expiration. If damaged, the gloves should be replaced immediately.

The selection of suitable protective gloves does not only depend on their material, but also on other qualitative features. Furthermore, since the mixture can be used for various purposes, mixed with other substances, the suitability of gloves for all purposes cannot be predetermined and must be verified in particular use.

### **Respiratory protection**

Don't breathe vapours. For short-time exposure or low concentration, use respirator with organic vapour and dust filter (protection level A/P2); for high concentration and long-term exposure, self-contained respirator is necessary.

# Thermal hazard

Not available.

### **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2. Ensure that containers are properly closed during storage, handling and transport. Secure storage areas against possible leakage of product into the environment (sewerage, water, soil - see 6.2). Do not flush product into drains or watercourses.

### More information

Exposure scenario is attached to the Safety Data Sheet.

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

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

Physical state liquid Colour white

Odour typical aromatic
Melting point/freezing point data not available
Boiling point or initial boiling point and boiling range data not available

Flammability Highly flammable liquid and vapour.

Lower and upper explosion limit data not available

Page 8/16



# S 2856 SIGNOCRYL T

Creation date 24th January 2007

Revision date 21st November 2022 3.0 Version

<21 °C (EN ISO 2719) Flash point Auto-ignition temperature data not available Decomposition temperature data not available non-soluble (in water) >20,5 mm<sup>2</sup>/s at 40 °C Kinematic viscosity Solubility in water data not available Partition coefficient n-octanol/water (log value)

data not available Vapour pressure data not available

Density and/or relative density

Density 1,40 g/cm<sup>3</sup> at 23 °C (EN ISO 2811-1)

9.2. Other information

> Oxidising properties The product has no oxidizing properties.

The product does not have explosive properties but can be Explosive properties

explosive when blended with air.

Content of organic solvents (VOC) 0,34 kg/kg Total organic carbon (TOC) 0,31 kg/kg 44 % volume Solid content (dry matter)

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

#### 10.1. Reactivity

When used in the standard way, there is not any dangerous reaction with other substances.

### 10.2. Chemical stability

The product is volatile and evaporates under standard temperature and pressure. It is stable when stored and handled under standard ambient conditions.

### 10.3. Possibility of hazardous reactions

No known dangerous reactions when used under standard conditions. Flammable liquid. Vapours may form explosive mixture with air. Vapours are heavier than air, accumulate near the ground and below ground, and the fire can spread over long distances.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

#### 10.6. **Hazardous decomposition products**

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.

### **SECTION 11: Toxicological information**

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

In terms of health effects, the mixture has not been tested as a whole; the data are adopted from Safety Data Sheets of raw material suppliers. Data that are not specified are currently not available. Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time.



# **S 2856 SIGNOCRYL T**

Creation date 24th January 2007

Revision date 21st November 2022 Version 3.0

### **Acute toxicity**

Based on available data the classification criteria are not met.

4-methylpentan-2-one oxime

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50	OECD 420	>1.5 ml/kg bw		Rat (Rattus norvegicus)	F/M

### titanium dioxide

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		>5000 mg/kg			
Inhalation	LC50		6.82 mg/l of air			

#### toluene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Sex
Oral	LD50		5000 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD50		14000 mg/kg		Rabbit	
Inhalation (gases)	LC50		30080 mg/m <sup>3</sup>	4 hour	Rat (Rattus norvegicus)	
Inhalation (gases)	LC50		15040 mg/m <sup>3</sup>	4 hour	Mouse	

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/irritation

Based on available data the classification criteria are not met.

### Respiratory or skin 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

Suspected of damaging the unborn child.

# Toxicity for specific target organ - single exposure

May cause drowsiness or dizziness.

### Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

### **Aspiration hazard**

Based on available data the classification criteria are not met.



	according to Regulation (EC)	No 1907/2006 (REACH)	as amended	
	S 2856 S	IGNOCRYL T		
Creation date	24th January 2007 21st November 2022	Version	2.0	
Revision date	21st November 2022	Version	3.0	

### More information

Human experience:

Toluene

The primary entry of toluene into the body is inhalation, in this case it is absorbed 50% of toluene. It can also be absorbed by the digestive tract or skin contact. Primarily toluene affects the central nervous system, it has a narcotic effect. It causes respiratory irritation, causes cardiac arrhythmia and damages the liver and kidneys. Acute exposure causes headaches, dizziness, fatigue, loss of coordination and color vision, vomiting and lethargy. Chronic exposure causes fatigue, loss of concentration and memory, irritability, persistent headaches. In most cases the symptoms (post exposure) are only temporary. It has a degreasing effect in contact with skin, can pass into the secondary inflammation. After a prolonged exposure there is a risk of dermatitis. Toluene can cross the placenta to the fetus, and may also be present in breast milk.

### 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

### **SECTION 12: Ecological information**

### 12.1. Toxicity

### **Acute toxicity**

The complete mixture has not been tested. The classification is based on the calculation method. Information on toxic effects are based on the effects of the substances, the data are taken from the safety data sheets of raw materials. The mixture is classified as dangerous for the environment. Harmful to aquatic life with long lasting effects. The mixture is a source of volatile organic emissions. Avoid release to the environment.

4-methylpentan-2-one oxime

Parameter	Method	Value	Exposure time	Species	Environmen t
EC50	OECD 202	>100 mg/l	48 hour	Daphnia (Daphnia magna)	
	OECD 201	>100 mg/l	72 hour	Algae (Pseudokirchneriella subcapitata)	

### titanium dioxide

Parameter	Method	Value	Exposure time	Species	Environmen t
LC50	OECD 203	>100 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	Freshwater
LC50	OECD 203	>10000 mg/l	96 hour	Fishes (Cyprinodon variegatus)	Salt water
LC50	OECD 202	>100 mg/l	48 hour	Daphnia (Daphnia magna)	Freshwater

### toluene

Parameter	Method	Value	Exposure time	Species	Environmen t
LC50		10 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	
EC50		60 mg/l	48 hour	Daphnia (Daphnia magna)	
EC50		120 mg/l	72 hour	Algae (Scenedesmus subspicatus)	-

Page 11/16



	according to Regulation (EC)	No 1907/2006 (REACH) a	as amended	
	S 2856 S	IGNOCRYL T		
Creation date	24th January 2007			
Revision date	21st November 2022	Version	3.0	

#### toluene

Parameter	Method	Value	Exposure time	Species	Environmen t
Log Pow		2.73			

### 12.2. Persistence and degradability

### **Biodegradability**

4-methylpentan-2-one oxime

Parameter	Method	Value	Exposure time	Environment	Result
	OECD 302B	98 %	28 day		

Data for mixture not available.

### 12.3. Bioaccumulative potential

4-methylpentan-2-one oxime

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]
Log Pow	OECD 107	1.54				20°C
toluene						

Parameter	Method	Value	Exposure time	Species	Environment	Temperature [°C]	
BCF		16-90					

Data for mixture not available.

### 12.4. Mobility in soil

toluene

Parameter	Value	Environment	Temperature
Koc	37-178		

The mixture is a liquid insoluble in water, in case of leakage into environment, it may be dispersed over large distances and penetrate into underground water. It contains components with the potential of mobility in soil. When released into the soil may occur due to contamination of groundwater.

### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

### 12.6. Endocrine disrupting properties

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

# 12.7. Other adverse effects

Volatile organic substances contained in the mixture have the potential to damage ozone layer.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

Page 12/16



# S 2856 SIGNOCRYL T

Creation date 24th January 2007

Revision date 21st November 2022 Version 3.0

### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

### Waste type code

08 01 11 waste paint and varnish containing organic solvents or other hazardous substances \*

### Packaging waste type code

15 01 10 packaging containing residues of or contaminated by hazardous substances \*

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

### **SECTION 14: Transport information**

#### 14.1. UN number or ID number

UN 1263

### 14.2. UN proper shipping name

**PAINT** 

### 14.3. Transport hazard class(es)

3 Flammable liquids

### 14.4. Packing group

II - substances presenting medium danger

### 14.5. Environmental hazards

not relevant

### 14.6. Special precautions for user

Reference in the Sections 4 to 8. The product is transported in ordinary and covered means of transport, protected against the weather, shocks and falls.

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

Not classified.

### **Additional information**

Hazard identification No.

UN number

Classification code

F1

Safety signs

3



### Air transport - ICAO/IATA

Packaging instructions passenger 355
Cargo packaging instructions 366

### Marine transport - IMDG

EmS (emergency plan) F-E, S-E MFAG 310



	according to Regulation (EC)	No 1907/2006 (REACH) a	as amended	
	S 2856 S	IGNOCRYL T		
Creation date	24th January 2007			
Revision date	21st November 2022	Version	3.0	

#### **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended.

### Restrictions pursuant to Annex XVII of Regulation (EC) No. 1907/2006 (REACH), as amended

### toluene

Restriction	Conditions of restriction
	Shall not be placed on the market, or used, as a substance or in mixtures in a concentration equal to or greater than $0.1 \%$ by weight where the substance or mixture is used in adhesives or spray paints intended for supply to the general public.

### 15.2. Chemical safety assessment

Chemical safety assessment was carried out on the individual substances of the mixture. The respective exposure scenarios are incorporated in Annex of this Safety Data Sheet.

#### SECTION 16: Other information

A list of standard risk	phrases used in the safety	y data sheet
-------------------------	----------------------------	--------------

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

### Guidelines for safe handling used in the safety data sheet

P280 Wear protective gloves/protective clothing/eye protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.

P312 Call a doctor if you feel unwell.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P261 Avoid breathing vapours/spray.

P501 Dispose of contents/container to in accordance with local regulations by handing over to a person authorized to dispose of waste or a site designated by the town.

P102 Keep out of reach of children.

### A list of additional standard phrases used in the safety data sheet

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

### Other important information about human health protection

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

### Key to abbreviations and acronyms used in the safety data sheet

ADR European agreement concerning the international carriage of dangerous goods by

road



# S 2856 SIGNOCRYL T

Creation date 24th January 2007
Revision date 21st November 2022 Version 3.0

BCF Bioconcentration Factor
CAS Chemical Abstracts Service

CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of

substance and mixtures

DNEL Derived no-effect level

EC50 Concentration of a substance when it is affected 50% of the population EINECS European Inventory of Existing Commercial Chemical Substances

EmS Emergency plan

ES Identification code for each substance listed in EINECS

EU European Union

EuPCS European Product Categorisation System IATA International Air Transport Association

IBC International Code For The Construction And Equipment of Ships Carrying

**Dangerous Chemicals** 

ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods

INCI International Nomenclature of Cosmetic Ingredients
ISO International Organization for Standardization
IUPAC International Union of Pure and Applied Chemistry

LC50 Lethal concentration of a substance in which it can be expected death of 50% of the

population

LD50 Lethal dose of a substance in which it can be expected death of 50% of the

population

log Kow Octanol-water partition coefficient

MARPOL International Convention for the Prevention of Pollution from Ships

OEL Occupational Exposure Limits

PBT Persistent, Bioaccumulative and Toxic
PNEC Predicted no-effect concentration

ppm Parts per million

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Agreement on the transport of dangerous goods by rail

UN Four-figure identification number of the substance or article taken from the UN

Model Regulations

UVCB Substances of unknown or variable composition, complex reaction products or

biological materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bioaccumulative

Acute Tox. Acute toxicity

Aquatic Chronic Hazardous to the aquatic environment (chronic)

Asp. Tox. Aspiration hazard

Eye Irrit. Eye irritation

Flam. Liq. Flammable liquid

Repr. Reproductive toxicity

Skin Irrit. Skin irritation

STOT RE Specific target organ toxicity - repeated exposure STOT SE Specific target organ toxicity - single exposure

**Training guidelines** 



### S 2856 SIGNOCRYL T

Creation date 24th January 2007 Revision date 21st November 202

21st November 2022 Version 3.0

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

For professional use only.

### Information about data sources used to compile the Safety Data Sheet

Commission Regulation (EU) 2020/878 of 18 June 2020. REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from 10.6.2019. Overall revision of SDS according to Commission Regulation (EU) 2020/878.

#### More information

Classification procedure - calculation method.

### **Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.

# Annex to the Product Safety Data Sheet - EXPOSURE SCENARIO RECOMMENDATION ON SAFE USE OF THE MIXTURE

#### 1. Industrial use

Duration of work activities

Application sector : SU 3 Chemical product category : PC9a

Partial processes covered by exposure scenario: PROC1, PROC3, PROC3, PROC5, PROC5, PROC7, PROC8a, PROC8b,

PROC10, PROC13, PROC15

Environmental release : ERC4

### Basic conditions to control the hazard for workers:

Concentration

: Work with standard coating composition or coating composition thinned by solvents containing the same volatile components as the coating composition is anticipated.

Temperature

: Work at temperature up to 20 °C higher than site temperature is anticipated except for the coating composition's drying and hardening processes at increased temperature.

: Wear protective working clothes. Wear protective gloves and eye protection if in danger of contact with the coating composition (see section 8.2. of the SDS). Basic training required.

: Use respiratory protection if NPK or PEL values are exceeded (see section 8 of the

: Covers exposure up to 8 h/d (unless otherwise specified)

SDS).

Abide by general principles of safe and hygienic work with chemical substances.
Workplaces must meet the requirements for work with flammable liquids capable of producing explosive mixtures of vapours with air.

The workplace must meet the requirements against accidental leaks of the product into

water or soil.

Site where the activities are performed : Indoor use is anticipated.

### Additional requirements to control the hazard for workers carrying out partial work activities:

Partial work activities with the product (Partial contributing scenarios)	Process category	Required additional measures to control worker exposure
Pumping from/to containers and devices within a closed system with no possibility to release emission	PROC 1 Use within closed production process	Does not require further risk control measures.
Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure	PROC 8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure	PROC 8b Transfer of the product (charging / discharging) to/from vessels/large containers at dedicated facilities	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Mixing, blending, thinning of coating composition in open devices with possible exposure to volatile components of the coating composition	PROC5 Mixing or blending in batch processes at mixture manufacturing (excl. charging and discharging of vessels).	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Application by spraying.	PROC 7 Industrial spraying.	Robotic spraying in closed chambers or closed cabs with laminar extraction. In course of spraying, enter the chambers only with self-contained respirator.
		Manual spraying in spraying chambers with laminar flow of extracted air directed from the worker or in intensively ventilated spaces (5-10 air exchanges per hour) with respiratory protection (half-face or full-face respirator) provided with type A/P2 filter.
Manual coating composition application by roller, brush or palette knife.	PROC 10 Roller, palette knife or brush application	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Dipping or pouring application of coating composition.	PROC 13 Treatment of articles by dipping and pouring	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
Free drying of coating composition film at standard or slightly increased ambient temperature (by max. 20 °C)	PROC 4 Use within batch or other process where opportunity for exposure arises	Carry out in well ventilated spaces (3-5 air exchanges per hour).
Continuous drying and hardening processes of the coating composition film at increased temperature in drying tunnels equipped with vapour extraction	PROC 2 Use within continuous chemical production process with occasional controlled exposure (e.g. at sampling).	Does not require further risk control measures.
Batch drying and hardening processes of the coating composition film at increased temperature in extracted chambers	PROC 3 Use within closed batch process of mixture manufacturing.	Does not require further risk control measures.

Machine cleaning and washing of closed tanks, containers and devices equipped with vapour extraction	PROC 3 Use within closed batch process of mixture manufacturing	Does not require further risk control measures.
Manual cleaning of small containers, application devices and tools	PROC 10 Roller or brush application (by a tool held in hand)	Local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).
	PROC8a Transfer of the product (charging / discharging) to/from vessels/large containers at non dedicated facilities	
Laboratory checks on the coating composition	PROC 15 Use as laboratory reagent (laboratory work with the product)	Handling in a fume hood or in the presence of vacuum ventilation.
Activities involving product waste and waste contaminated by the product		If in risk of contact with waste, wear protective gloves. Store the waste in closable containers stored in well ventilated storages or outdoor.

### Additional requirements to control environmental hazards

Air emission control	When spraying, remove fly coating mist from the air extracted from the work site. If the limits for solvent consumption defined in Ordinance no. 415/2012 Coll. are exceeded, use solvent recuperation from waste air or remove the solvents by incineration or other processes guaranteeing observation of emission parameters specified in air protection regulations.
Water emission control	Store the coating and waste contaminated by coat in buildings structurally protected from leakage release and emergency release to surface and ground water.  Treat water contaminated by coat compounds and remove solid impurities and organic compounds by sedimentation, filtration, biological treatment processes or special processes developed for treatment of water contaminated by coating compositions before discharging to surface water.  When discharging the treated waste water, observe the contamination parameters specified for the involved facility by water management authority.
Disposal of waste	Dispose of coat waste and materials contaminated by coat and its compounds in cooperation with authorised persons as of hazardous waste.  Dispose of solvent waste from tools and device cleaning as of hazardous waste.  Prevent release or discharge of any liquid waste to surface and ground water unless it is treated and coating composition compounds are removed.

### 2. Professional use

Environmental release

Application sector : SU 22 Chemical product category : PC9a

Partial processes covered by exposure scenario: PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13,

PROC15, PROC19 : ERC 8a, ERC 8d

### Basic conditions to control the hazard for workers:

Duration of work activities	: Covers exposure up to 8 h/d (unless otherwise specified)
Concentration	: Work with standard coating composition or coating composition thinned by solvents containing the same volatile components as the coating composition is anticipated.
Temperature	: Work at temperature up to 20 °C higher than site temperature is anticipated except for the coating composition's drying and hardening processes at increased temperature.
General risk management measures	: Wear protective working clothes. Wear protective gloves and eye protection if in danger of contact with the coating composition (see section 8.2. of the SDS). Basic training required.
	<ul> <li>Use respiratory protection if NPK or PEL values are exceeded (see section 8 of the SDS).</li> <li>Abide by general principles of safe and hygienic work with chemical substances.</li> <li>Workplaces must meet the requirements for work with flammable liquids capable of producing explosive mixtures of vapours with air.</li> <li>The workplace must meet the requirements against accidental leaks of the product into water or soil.</li> </ul>
Site where the activities are performed	: Indoor and outdoor use is anticipated.

### Additional requirements to control the hazard for workers carrying out partial work activities:

Partial work activities with the product	Process category	Required additional measures to control
(Partial contributing scenarios)		worker exposure
Pumping the coating composition from/to	PROC 8a Transfer of the product	Indoor: local air extraction at potential emission
containers and devices at non dedicated	(charging / discharging) to/from	release or good ventilation (3-5 air exchanges
facility with potential human and	vessels/large containers at non	per hour).
environment exposure	dedicated facilities	Outdoor: secure catch dripping paint

Pumping the coating composition from/to containers and devices at non dedicated facility with potential human and environment exposure	PROC 8b Transfer of the product (charging / discharging) to/from vessels/large containers at dedicated facilities	Indoor: local air extraction at potential emission release or good ventilation (5-10 air exchanges per hour).  Outdoor: does not require further risk control measures
Mixing, blending, thinning of coating composition in open devices with possible exposure to volatile components of the coating composition	PROC5 Mixing or blending in batch processes at mixture manufacturing (excl. charging and discharging of vessels).	Indoor: local air extraction at potential emission release or good ventilation (3-5 air exchanges per hour).  Outdoor: working process a maximum of 4h per day does not require further risk control measures or use respiratory protection with filter type A.
Application by spraying.	PROC 11 Non industrial spraying.	Indoor: do spraying in spraying chambers with laminar flow of extracted air directed from the worker or in intensively ventilated spaces (5-10 air exchanges per hour) with respiratory protection (half-face or full-face respirator) provided with type A/P2 filter.  Outdoor: use respiratory protection with filter
Manual coating composition application by roller, brush or palette knife.	PROC 10 Roller, palette knife or brush application	type A/P2.  Indoor: local air extraction at potential emission release or good ventilation (5-10 air exchanges per hour).  Outdoor: does not require further risk control measures
Dipping or pouring application of coating composition.	PROC 13 Treatment of articles by dipping and pouring	Indoor: local air extraction at potential emission release or good ventilation (5-10 air exchanges per hour).  Outdoor: use respiratory protection with filter type A.
Free drying of coating composition film at standard or slightly increased ambient temperature (by max. 20 °C)	PROC 4 Use within batch or other process where opportunity for exposure arises	Indoor: carry out in well ventilated spaces (5-10 air exchanges per hour). Outdoor: does not require further risk control measures
Batch drying and hardening processes of the coating composition film at increased temperature in extracted chambers	PROC 3 Use within closed batch process of mixture manufacturing.	Does not require further risk control measures.
Manual cleaning of small containers, application devices and tools	PROC 10 Roller or brush application (by a tool held in hand)	Indoor: local air extraction at potential emission release or good ventilation (5-10 air exchanges per hour).  Outdoor: does not require further risk control measures
Laboratory checks on the coating composition	PROC 15 Use as laboratory reagent (laboratory work with the product)	Handling in a fume hood or in the presence of vacuum ventilation.
Manual activities involving hand contact	PROC19 Hand-mixing with intimate contact and only PPE available	Indoor. Use protective gloves, local air extraction at potential emission release or good ventilation Outdoor: use protective gloves
Activities involving product waste and waste contaminated by the product		If in risk of contact with waste, wear protective gloves. Store the waste in closable containers stored in well ventilated storages or outdoor.

# Additional requirements to control environmental hazards

Air emission control	Does not require special risk control measures
Water emission control	Store the paints and waste contaminated by paints in buildings structurally protected from leakage release and emergency release to surface and ground water.  Clean up waste water contaminated by paints in the Municipal wastewater treatment plants before discharging to surface water or capture or dispose them as hazardous waste in cooperation with the authorized person.
Disposal of waste	Overspray and drips paint as possible to capture and dispose as hazardous waste.  Prevent leakage or discharge of any liquid waste into surface and groundwater unless it is cleaned up from the paint compounds.  Dispose of paint waste and materials contaminated by paints and its compounds in cooperation with authorised persons as of hazardous waste.  Dispose of solvent waste from tools and device cleaning as of hazardous waste.