

# Annex to the Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name:

Product No:

Version: 4.0 / EN

Page 1 of 6

Print date:

Revision date: 08.07.2019

## Table of content

### Overview on the exposure scenarios

ES No	Short title of the exposure scenario	SU	PROC	ERC	spERC	PC	AC
1	<i>Manufacture of substance, use as a process chemical, Use as an intermediate</i>	<i>SU 3 SU 8</i>	<i>PROC 1 PROC 2 PROC 3 PROC 4 PROC 8a PROC 8b PROC 9</i>	<i>ERC 6c</i>			
2							
...							
...							
...							

# Annex to the Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name:

Product No:

Version: 4.0 / EN

Page 2 of 6

Print date:

Revision date: 08.07.2019

<b>1</b>	<b>Exposure Scenario No 1</b>		
<b>1.1</b>	<b>Short title of the exposure scenario</b>		
<b>1.1.1</b>	<b>Use descriptors</b>		
1.1.1.1	Life cycle stages [LCS]		
1.1.1.2	Sector of use [SU]		
1.1.1.3	Process categories [PROC]		
1.1.1.4	Product categories [PC]		
1.1.1.5	Environmental release categories [ERC]		
1.1.1.6	Specific environmental release categories [spERC]		
1.1.1.7	Sector-specific worker exposure description [SWED]		
1.1.1.8	Article categories [AC]		
<b>1.1.2</b>	<b>Processes, tasks, activities covered</b>		
<b>1.1.3</b>	<b>Remark</b>		
<b>1.2</b>	<b>Operational conditions and risk management measures</b>		
<b>1.2.1</b>	<b>Control<sub>[A1]</sub> of environmental exposure</b>		
<b>1.2.1.1.</b>	<b>Exposure assessment (method/calculation model)</b>		
1.2.1.1.1	Remark		
<b>1.2.1.2</b>	<b>Product characteristics</b>		
1.2.1.2.1	Physical form of the product		
1.2.1.2.2	Vapour pressure		
1.2.1.2.3	Temperature		
1.2.1.2.4	Viscosity		
1.2.1.2.5	Molecular weight		only optional
1.2.1.2.6	pH value		only optional
1.2.1.2.7	Biodegradation		only optional
1.2.1.2.8	Bioaccumulation		only optional
1.2.1.2.9	Remark		
<b>1.2.1.3</b>	<b>Contributing exposure scenario controlling environmental exposure</b>		
<b>1.2.1.3.1</b>	<b>Contributing scenario No 1</b>		
	<b>ERC 1</b>	text of ERC 1	
<b>1.2.1.3.1.1</b>	<b>Operational conditions</b>		
1.2.1.3.1.1.1	Concentration of the substance in a mixture	25 - 100 %	
1.2.1.3.1.1.2	Concentration of substance in the article		
<b>1.2.1.3.1.2</b>	<b>Amounts Used</b>		
1.2.1.3.1.2.1	Annual amount used in the EU		
1.2.1.3.1.2.2	Annual amount per site	5 kt/a	
1.2.1.3.1.2.3	Daily amount per site	250 kg	
1.2.1.3.1.2.4	Maximum allowable site tonnage (M <sub>Safe</sub> )	0,34 kg/d	
1.2.1.3.1.2.5	Remark		
<b>1.2.1.3.1.3</b>	<b>Duration and frequency of use</b>		
1.2.1.3.1.3.1	Emission days per year	300	
1.2.1.3.1.3.2	Remark		

# Annex to the Safety Data Sheet

## According to Regulation (EC) No 1907/2006 (REACH)

Trade name:

Product No:

Version: 4.0 / EN

Page 3 of 6

Print date:

Revision date: 08.07.2019

1.2.1.3.1.4 Environmental factors not influenced by risk management		
1.2.1.3.1.4.1	Local Freshwater dilution factor	10
1.2.1.3.1.4.2	Local marine water dilution factor	100
1.2.1.3.1.4.3	Type of Sewage treatment plant (STP)	onsite STP
1.2.1.3.1.4.4	River flow rate	
1.2.1.3.1.4.5	Remark	

1.2.1.3.1.5 Other given operational conditions of use affecting environmental exposure		
1.2.1.3.1.5.1	Release fraction to air from process (initial release prior to RMM)	0.098
1.2.1.3.1.5.2	Release fraction to wastewater from process (initial release prior to RMM)	0.007
1.2.1.3.1.5.3	Release fraction to soil from process (initial release prior to RMM)	0
1.2.1.3.1.5.4	Remark	
1.2.1.3.1.6 Conditions in spERC fact sheet		
1.2.1.3.1.6.1	Release fraction to air:	
1.2.1.3.1.6.2	Release fraction to wastewater:	
1.2.1.3.1.6.3	Release fraction to soil:	
1.2.1.3.1.6.4	M <sub>safe</sub> SPERC	
1.2.1.3.1.6.5	Remark	
1.2.1.3.1.6 Risk management measures		
1.2.1.3.1.6.1	Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Treat air emissions to provide a typical removal efficiency of > 90 %. [TCR 7]
		Typical onsite wastewater treatment technology provides removal efficiency of 93.67%. [TCR 11]
		Prevent discharge of undissolved substance to or recover from wastewater [TCR14].
		Soil emission controls are not applicable as there is no direct release to soil [TCR 4].
1.2.1.3.1.6.2	Organisational measures to prevent/limit release from site	Do not apply industrial sludge to natural soils [OMS2].
		Sludge should be incinerated, contained or reclaimed [OMS3].

# Annex to the Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name:

Product No:

Version: 4.0 / EN

Page 4 of 6

Print date:

Revision date: 08.07.2019

1.2.1.3.1.6.3	Conditions and measures related to municipal sewage treatment plant	Estimated substance removal from wastewater via domestic sewage treatment 93.67 (%) [STP3].	
		Assumed domestic sewage treatment plant flow 2000 (m <sup>3</sup> /d) [STP5].	
1.2.1.3.1.6.4	Conditions and measures related to external treatment of waste for disposal	External treatment and disposal of waste should comply with applicable local and/or national regulations. [ETW 3].	
1.2.1.3.1.6.5	Conditions and measures related to external recovery of waste	External recovery and recycling of waste should comply with applicable local and/or national regulations.[EWR 1]	
1.2.1.3.1.6.5	Other environmental control measures additional to above	None	
1.2.1.3.1.6.6	Remark		
1.2.1.3.1.7	<b>Exposure estimation and reference to its source</b>		
	Confirm that RMMs and OCs are as described or of equivalent efficiency.		
	<b>Contributing scenario</b>	<b>Protection target</b>	<b>Exposure<sup>[A2]</sup> assessment (environment)</b>
ERC 6a	Fresh water		
	Marine water		
	Fresh water sediment		
	Marine water sediment		
	STP		
	Secondary Poisoning		
	Soil		
	Air		Not applicable
	Remark		
1.2.1.3.1.8	<b>Additional good practice advice beyond the REACH CSA</b>		
	Good practice RMM phrases may be incorporated in this section or consolidated into the main sections of the SDS, depending on the preference of the Registrant and functionality of the available e-SDS system.		

# Annex to the Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name:

Product No:

Version: 4.0 / EN

Page 5 of 6

Print date:

Revision date: 08.07.2019

<b>1.2.2</b>	<b>Control of worker exposure</b>	
<b>1.2.2.1</b>	<b>Contributing exposure scenario controlling worker exposure</b>	
<b>1.2.2.1.1</b>	<b>Contributing scenario No 1</b>	
	<b>PROC 1</b>	<b>Text of PROC 1</b>
<b>1.2.2.1.1.1</b>	<b>Exposure assessment (method/calculation model)</b>	
1.2.2.1.1.2	Remark	
<b>1.2.2.1.2</b>	<b>Product characteristics</b>	
1.2.2.1.2.1	Physical form of the product	
1.2.2.1.2.2	Vapour pressure	
1.2.2.1.2.3	Temperature	
1.2.2.1.2.4	Viscosity	
1.2.2.1.2.5	Molecular weight	
1.2.2.1.2.6	pH value	
1.2.2.1.2.7	Remark	
<b>1.2.2.1.3</b>	<b>Operational conditions</b>	
1.2.2.1.3.1	Process temperature	
1.2.2.1.3.2	Area of use	
1.2.2.1.3.3	Amounts used	
1.2.2.1.3.4	Duration and Frequency of use	
1.2.2.1.3.5	Concentration of the substance in a mixture	
1.2.2.1.3.6	Concentration of substance in the article	
1.2.2.1.3.7	Indoor/Outdoor use	
1.2.2.1.3.8	Local exhaust ventilation	
1.2.2.1.3.9	Ventilation type	
1.2.2.1.3.1 0	<b>Human factors not influenced by risk management</b>	
1.2.2.1.3.1 0.1	Exposed skin surface assumed	
1.2.2.1.3.1 1	<b>Other operational conditions affecting worker exposure</b>	
1.2.2.1.3.1 2	Remark	
<b>1.2.2.1.4</b>	<b>Risk management measures</b>	
1.2.2.1.4.1	Technical conditions and measures at process level (source) to prevent release	
1.2.2.1.4.2	Technical conditions and measures to control dispersion from source towards the worker	
1.2.2.1.4.3	Organisational measures to prevent /limit releases, dispersion and exposure	
1.2.2.1.4.4	Conditions and measures related to personal protection, hygiene and health evaluation	
1.2.2.1.4.5	Remark	

# Annex to the Safety Data Sheet

According to Regulation (EC) No 1907/2006 (REACH)

Trade name:

Product No:

Version: 4.0 / EN

Page 6 of 6

Print date:

Revision date: 08.07.2019

1.2.2.1.5	<b>Exposure estimation and reference to its source</b>			
	Remark			
	<b>Contributing scenario</b>	<b>Exposure route</b>	<b>Exposure estimation</b>	<b>Risk characterisation ratio (RCR)</b>
	PROC 1	oral, short-term, systemic		
		oral, long-term, systemic		
		dermal, short-term, local (acute)		
		dermal, short-term, systemic (acute)		
		dermal, long-term, local		
		dermal, long-term, systemic		
		inhalative, short-term, local (acute)		
		inhalative, short-term, systemic (acute)		
inhalative, long-term, local				
inhalative, long-term, systemic				
1.2.2.1.6	<b>Additional good practice advice beyond the REACH CSA</b>			
No general information available				
Good practice RMM phrases may be incorporated in this section or consolidated into the main sections of the SDS, depending on the preference of the Registrant and functionality of the available e-SDS system.				
1.3.	<b>Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES</b>			
1.3.1	<b>Guidance to check compliance with the Exposure Scenario</b>			
1.3.1.1	<b>Human health</b>			
For scaling see: <a href="http://www.ecetoc.org/tra">http://www.ecetoc.org/tra</a>				
Please note that a modified version has been used (see exposure estimates).				
1.3.1.2	<b>Environmental</b>			
Risk from environmental exposure is driven by freshwater				
Further details on scaling and control technologies are provided in SpERC factsheet.				