SAFETY DATA SHEET



: 12.16

Date of issue/Date of revision

: 14 March 2020 Version

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

1.1 Product identifier	
Product name :	Qotec NanoClear+
Product code .	QT2KAC/E5
Other means of identification	GIZRAC/LJ
Not available.	

NANO COATINGS

1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.

Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.

1.3 Details of the supplier of the safety data sheet

Qotec Nano Coatings BV Nijverheidsweg 7	
4731 CZ Oudenbosch	
The Netherlands	
Tel: +31 (0)165 - 315 350	
e-mail address of person responsible for this SDS	: info@Qotec.nl

1.4 Emergency telephone number

Supplier

Company emergency telephone number : Tel: +31 (0)165 - 315 350

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS) Flam. Liq. 3, H226 STOT SE 3, H336 Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

No smoking. Avoid breathing vapour.Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF	Hazard pictograms :	Product Name: Qotec Nano Code : QT2KNC+/E		Date of issue/Date of revision	: 14 March 2020
Signal word : Warning Hazard statements : Flammable liquid and vapour. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Precautionary statements : Response : Prevention : Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources No smoking. Avoid breathing vapour. Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Storage : Store in a well-ventilated place. Keep cool. Disposal : Not applicable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : 2-ethoxy1-methyllethyl acetate n-butyl acetate Supplemental label elements : Contains bis(1,22,66-pentamethyl-4-piperidyl) sebacate and methyl 1,22,2,66-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable. Special packaging requirements Containers to be fitted with child-resistant fastenings : Not applicable. Z3 Other hazards : Not applicable. Product meets the	Signal word : Warning Hazard statements : Flammable liquid and vapour. Mag cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Precautionary statements : Prevention : Prevention : Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition source No smoking. Avoid breathing vapour. Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rines skin with water. Storage : Stor apulciable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : 2-ethoxy-1-methylethyl acetate n-butyl acetate Supplemental label elements : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and mathyl 1,2,2,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements : Not applicable. : Zo Other hazards : Not applicable. : Product meets the criteria for PBT or vPvB : This mixture does not contain any s	SECTION 2: Hazards	identificatio	n	
Hazard statements : Flammable liquid and vapour. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Precautionary statements : Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources No smoking. Avoid breathing vapour. Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Storage : Store in a well-ventilated place. Keep cool. Disposal : Not applicable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements/ Containers to be fitted with child-resistant fastenings : Not applicable. 7.3 Other hazards : Not applicable. Product meets the criteria for PBT or vPvB Other hazards which do : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	Hazard statements : Flammable liquid and vapour. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Precautionary statements : Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition source No smoking. Avoid breathing vapour. Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Storage : Storage Disposal : Not applicable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : Contains bis(12,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 12,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Supplemental label elements : Contains bis(12,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements for PBT or vFvB : Not applicable. Product meets the criteria for PBT or vFvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.	Hazard pictograms		!	
May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Precautionary statements Prevention : Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources No smoking. Avoid breathing vapour. Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Storage : Store in a well-ventilated place. Keep cool. Disposal : Not applicable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : 2-ethoxy-1-methylethyl acetate n-butyl acetate Supplemental label elements : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements fastenings Tactile warning of danger : Not applicable. Product meets the criteria for PBT or vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. Precautionary statements Prevention : Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition source No smoking. Avoid breathing vapour. Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Storage : Store in a well-ventilated place. Keep cool. Disposal : Not applicable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. Product meets the oriteria for PBT or vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do nor tresult in classification : Prolonged or repeated contact may dry skin and cause irritation.	Signal word	: Warning		
Prevention : Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources No smoking. Avoid breathing vapour. Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Storage : Store in a well-ventilated place. Keep cool. Disposal : Not applicable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : 2-ethoxy-1-methylethyl acetate n-butyl acetate Supplemental label elements : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements : Not applicable. Containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. Product meets the criteria : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	Prevention : Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition source No smoking. Avoid breathing vapour. Response :: IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Storage :: Store in a well-ventilated place. Keep cool. Disposal :: Not applicable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients :: 2-ethoxy-1-methylethyl acetate n-butyl acetate Supplemental label elements :: Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements : Not applicable. Containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. Product meets the criteria for PBT or vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.	Hazard statements	May cause drov	wsiness or dizziness.	
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources No smoking. Avoid breathing vapour. Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Storage : Store in a well-ventilated place. Keep cool. Disposal : Not applicable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : 2-ethoxy-1-methylethyl acetate Supplemental label elements : Contains bis(12.2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements : Not applicable. : Not applicable. Containers to be fitted with child-resistant fastenings : Not applicable. : Not applicable. Tactile warning of danger : : Not applicable. : Not applicable. Product meets the criteria : : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	Keep away from heat, hot surfaces, sparks, open flames and other ignition source No smoking. Avoid breathing vapour. Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Storage : Store in a well-ventilated place. Keep cool. Disposal : Not applicable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : 2-ethoxy-1-methylethyl acetate n-butyl acetate Supplemental label elements : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements Containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. Z3 Other hazards : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do no result in classification : Prolonged or repeated contact may dry skin and cause irritation.	Precautionary statements			
ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Storage : Store in a well-ventilated place. Keep cool. Disposal : Not applicable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : 2-ethoxy-1-methylethyl acetate Supplemental label : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl elements : Not applicable. on the manufacture, placing on the market and use of certain dangerous : Not applicable. Sybestances, mixtures and articles : Not applicable. Special packaging requirements : Not applicable. Containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. Product meets the criteria for PBT or vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	Storage ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Storage Store in a well-ventilated place. Keep cool. Disposal Not applicable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : 2-ethoxy-1-methylethyl acetate n-butyl acetate Supplemental label elements : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements Containers to be fitted with child-resistant fastenings : Not applicable. Za Other hazards Product meets the criteria for PBT or vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Prolonged or repeated contact may dry skin and cause irritation. : Prolonged or repeated contact may dry skin and cause irritation.	Prevention	Keep away fror	m heat, hot surfaces, sparks, open fla	
Disposal:Not applicable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235Hazardous ingredients:2-ethoxy-1-methylethyl acetate n-butyl acetateSupplemental label elements:Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:Not applicable.Special packaging requirements Containers to be fitted with child-resistant fastenings Tactile warning of danger:Not applicable.Z3 Other hazards:Not applicable.Product meets the criteria for PBT or vPvB Other hazards which do:This mixture does not contain any substances that are assessed to be a PBT or a vPvB.	Disposal : Not applicable. P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : 2-ethoxy-1-methylethyl acetate n-butyl acetate Supplemental label elements : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements : Not applicable. Containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. 2:3 Other hazards : This mixture does not contain any substances that are assessed to be a PBT or xPvB. Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.	Response	ON SKIN (or ha		
P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : 2-ethoxy-1-methylethyl acetate n-butyl acetate Supplemental label elements : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements Containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. Product meets the criteria for PBT or vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	P280, P210, P261, P304 + P340, P303 + P361 + P353, P403, P235 Hazardous ingredients : Supplemental label elements : Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Special packaging requirements : Containers to be fitted with child-resistant fastenings : Tactile warning of danger : Not applicable. : Product meets the criteria for PBT or vPvB : Other hazards which do not result in classification :	Storage	: Store in a well-	ventilated place. Keep cool.	
Hazardous ingredients : 2-ethoxy-1-methylethyl acetate n-butyl acetate Supplemental label : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements Containers to be fitted with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards : Not applicable. Product meets the criteria for PBT or vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	Hazardous ingredients : 2-ethoxy-1-methylethyl acetate Supplemental label : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl elements : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction. Annex XVII - Restrictions : Not applicable. on the manufacture, : Not applicable. placing on the market and : Not applicable. use of certain dangerous : Not applicable. Special packaging requirements : Not applicable. Containers to be fitted : Not applicable. with child-resistant : Not applicable. fastenings : Not applicable. Za Other hazards : Not applicable. Product meets the criteria : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.	Disposal			
n-butyl acetate Supplemental label : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements Containers to be fitted with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria for PBT or vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	Supplemental label : Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl I,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements : Not applicable. Containers to be fitted : Not applicable. with child-resistant : Not applicable. fastenings : Not applicable. Z.3 Other hazards Product meets the criteria : for PBT or vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.				3, P403, P235
elements 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements Containers to be fitted : Not applicable. with child-resistant : Not applicable. fastenings Tactile warning of danger Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria for PBT or vPvB Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	elements 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements : Not applicable. Containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. 2.3 Other hazards : Not applicable. Product meets the criteria for PBT or vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.	Hazardous ingredients	-		
on the manufacture, placing on the market and use of certain dangerous substances, mixtures and substances, mixtures and articles Special packaging requirements Containers to be fitted Containers to be fitted : Not applicable. with child-resistant : Not applicable. fastenings Tactile warning of danger Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria for PBT or vPvB Other hazards which do : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements Containers to be fitted : Not applicable. with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria for PBT or vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.				
Containers to be fitted with child-resistant fastenings Tactile warning of danger: Not applicable.Z.3 Other hazards.Product meets the criteria for PBT or vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.Other hazards which do: Prolonged or repeated contact may dry skin and cause irritation.	Containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. 2.3 Other hazards : Not applicable. Product meets the criteria for PBT or vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.	on the manufacture, placing on the market and use of certain dangerous substances, mixtures and	: Not applicable.		
with child-resistant fastenings Tactile warning of dangerNot applicable.2.3 Other hazardsProduct meets the criteria for PBT or vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.Other hazards which do: Prolonged or repeated contact may dry skin and cause irritation.	with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.	Special packaging requiren	nents		
2.3 Other hazards Product meets the criteria for PBT or vPvB Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	 2.3 Other hazards Product meets the criteria for PBT or vPvB Other hazards which do not result in classification This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Prolonged or repeated contact may dry skin and cause irritation. 	with child-resistant	: Not applicable.		
Product meets the criteria for PBT or vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.Other hazards which do: Prolonged or repeated contact may dry skin and cause irritation.	Product meets the criteria for PBT or vPvBThis mixture does not contain any substances that are assessed to be a PBT or a vPvB.Other hazards which do not result in classificationProlonged or repeated contact may dry skin and cause irritation.	Tactile warning of danger	: Not applicable.		
for PBT or vPvBvPvB.Other hazards which do:Prolonged or repeated contact may dry skin and cause irritation.	for PBT or vPvB vPvB. Other hazards which do not result in classification : Prolonged or repeated contact may dry skin and cause irritation.	2.3 Other hazards			
	not result in classification			loes not contain any substances that	are assessed to be a PBT or a
			: Prolonged or r	repeated contact may dry skin and ca	use irritation.

3.2 Mixtures

: Mixture

Product Name : Qotec NanoClear+ Date of issue/Date of revision Code : QT2KNC+/E5

: 14 March 2020

SECTION 3: Composition/information on ingredients

			Classification	
Product/ingredient name	Identifiers	% by weight	Regulation (EC) No. 1272/2008 (CLP)	Туре
2-ethoxy-1-methylethyl acetate	REACH #: 01-2119475116-39 EC: 259-370-9 CAS: 54839-24-6 Index: 603-177-00-8	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336	(1)
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥10 - ≤25	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	(1) (2)
Hydrocarbons, C9, aromatics	REACH #: 01-2119455851-35 EC: 918-668-5 CAS: 64742-95-6	≥5.0 - <10	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	(1)
heptan-2-one	REACH #: 01-2119902391-49 EC: 203-767-1 CAS: 110-43-0 Index: 606-024-00-3	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute T ox. 4, H302 Acute T ox. 4, H332 STOT SE 3, H336	(1) (2)
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute T ox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335 EUH066	(1) (2)
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≥1.0 - ≤5.0	Flam. Liq. 3, H226	(2)
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	EC: 255-437-1 CAS: 41556-26-7	≤0.92	Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1,	(1)
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	EC: 280-060-4 CAS: 82919-37-7	≤0.30	H410 (M=1) Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	(1)
			See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Tupe</u>

(1) Substance classified with a health or environmental hazard

(2) Substance with a workplace exposure limit

(3) Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

(4) Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

(5) Substance of equivalent concern

(6) Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

Product Name	: Qotec NanoClear+
Code	: QT2KNC+/E5

Date of issue/Date of revision

: 14 March 2020

SECTION 3: Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	 Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects Eue contact : No known significant effects or critical hazards. Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. Skin contact : Defatting to the skin. May cause skin dryness and irritation. Ingestion : Can cause central nervous system (CNS) depression. Over-exposure signs/symptoms Eye contact : No specific data. Inhalation : Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness : Adverse symptoms may include the following: Skin contact irritation dryness cracking : No specific data. Ingestion 4.3 Indication of any immediate medical attention and special treatment needed Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. : No specific treatment. Specific treatments

Product Name : Qotec NanoClear+ Code : QT2KNC+/E5	Date of issue/Date of revision	: 14 March 2020	

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising t	from the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides
5.3 Advice for firefighters	
Special precautions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	r C	ontainment and cleaning up
Small snill		Stop leak if without risk. Move containers from spill area. Use spark-proof tools and

Small spill
 Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Product Name : Qotec NanoClear+	Date of issue/Date of revision	: 14 March 2020
Code : QT2KNC+/E5		

SECTION 6: Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

Product Name : Qotec NanoClear+ Code : QT2KNC+/E5 Date of issue/Date of revision

: 14 March 2020

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
n-butyl acetate	EH40/2005 WELs (United Kingdom (UK), 8/2018). STEL: 966 mg/m ³ 15 minutes. STEL: 200 ppm 15 minutes.
handar Quart	TWA: 724 mg/m ³ 8 hours. TWA: 150 ppm 8 hours.
heptan-2-one	EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed
	through skin. STEL: 475 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 237 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
4-methylpentan-2-one	EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed
	through skin. STEL: 416 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 208 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin. STEL: 548 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 274 mg/m ³ 8 hours. TWA: 50 ppm 8 hours.
procedures atmosphe of the ven protective	duct contains ingredients with exposure limits, personal, workplace are or biological monitoring may be required to determine the effectivene tilation or other control measures and/or the necessity to use respirato e equipment. Reference should be made to monitoring standards, such a ing: European Standard EN 689 (Workplace atmospheres - Guidance for

of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
2-ethoxy-1-methylethyl acetate	DNEL	Long term Oral	13.1 mg/kg bw/ day	General population	Systemic
	DNEL	Long term Dermal	62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	103 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	181 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	302 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	365 mg/m ³	General population	Systemic
English (GB) United Kingdom (UK)				7/18	

Product Name	: (Qotec NanoClear+
Code	:	QT2KNC+/E5

Date of issue/Date of revision

: 14 March 2020

SECTION 8: Exposure controls/personal protection DNEL Short term Inhalation 608 mg/m³ Workers Systemic DNEL 300 mg/m³ Workers n-butyl acetate Long term Inhalation Systemic DNEL Long term Inhalation 300 mg/m^3 Workers Local DNEL Short term Inhalation 600 mg/m^3 Workers Local DNEL Short term Inhalation 600 mg/m^3 Workers Systemic DNEL Long term Dermal 11 mg/m^3 Workers Systemic Hydrocarbons, C9, aromatics DNEL Long term Inhalation 150 mg/m³ Workers Systemic 25 mg/kg bw/day Workers DNEL Long term Dermal Systemic DNEL Long term Inhalation 32 mg/m³ General Systemic population DNEL Long term Dermal 11 mg/kg bw/day General Systemic population DNEL Long term Oral 11 mg/kg bw/day General Systemic population 23.32 mg/kg bw/ heptan-2-one DNEL General Long term Oral Systemic population day DNEL Long term Dermal 23.32 mg/kg bw/ General Systemic population day DNEL Long term Dermal 54.27 mg/kg bw/ Workers Systemic day DNEL Long term Inhalation 84.31 mg/m³ General Systemic population DNEL Workers Long term Inhalation 394.25 mg/m³ Systemic DNEL Workers Short term Inhalation 1516 mg/m^3 Systemic 4.2 mg/kg bw/day General 4-methylpentan-2-one DNEL Systemic Long term Oral population DNEL 4.2 mg/kg bw/day General Long term Dermal Systemic population DNEL Long term Dermal 11.8 mg/kg bw/ Workers Systemic day DNEL Long term Inhalation 14.7 mg/m³ General Local population DNEL Long term Inhalation 14.7 mg/m³ General Systemic population DNEL Long term Inhalation 83 mg/m³ Workers Local Workers DNEL Long term Inhalation 83 mg/m³ Systemic DNEL Short term Inhalation 155.2 mg/m³ General Local population DNEL Short term Inhalation 155.2 mg/m³ General Systemic population DNEL Short term Inhalation Workers 208 mg/m³ Local DNEL Short term Inhalation 208 mg/m³ Workers Systemic 2-methoxy-1-methylethyl acetate DNEL Long term Oral 1.67 mg/kg bw/ General Systemic population day DNEL Long term Inhalation 33 mg/m³ General Local population DNEL Long term Inhalation 33 mg/m³ General Systemic population DNEL Long term Dermal 54.8 mg/kg bw/ General Systemic day population DNEL Long term Dermal 153.5 mg/kg bw/ Workers Systemic day DNEL 275 mg/m³ Workers Long term Inhalation Systemic Workers DNEL Short term Inhalation 550 mg/m³ Local ethyl 3-ethoxypropionate DNEL Long term Dermal 102 mg/cm^2 Workers Local DNEL Long term Oral 1.2 mg/kg bw/day General Systemic population DNEL 24.2 mg/kg bw/ Long term Dermal General Systemic day population United Kingdom (UK) English (GB)

Product Name : Qotec NanoClear+ Code : QT2KNC+/E5	Date of issue/Date of revision	: 14 March 2020

SECTION 8: Exposure controls/personal protection

DNEL	Long term Inhalation	72.6 mg/m ³	General	Local
			population	
DNEL	Long term Inhalation	72.6 mg/m³		Systemic
			population	
DNEL	Long term Dermal	102 mg/kg bw/day	Workers	Systemic
DNEL	Long term Inhalation	610 mg/m ³	Workers	Local
DNEL	Long term Inhalation	610 mg/m³	Workers	Systemic

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
n-butyl acetate	-	Fresh water	0.18 mg/l	-
	-	Marine water	0.018 mg/l	-
	-	Fresh water sediment	0.981 mg/kg	-
	-	Marine water sediment	0.0981 mg/kg	-
	-	Sewage Treatment Plant	35.6 mg/l	-
	-	Soil	0.0903 mg/kg	-
heptan-2-one	-	Fresh water	0.0982 mg/l	Assessment Factors
	-	Marine water	0.00982 mg/l	Assessment Factors
	-	Fresh water sediment	1.89 mg/kg	Equilibrium Partitioning
	-	Marine water sediment	0.189 mg/kg	Equilibrium Partitioning
	-	Sewage Treatment Plant	12.5 mg/l	Assessment Factors
	-	Soil	0.321 mg/kg	Equilibrium Partitioning
4-methylpentan-2-one	-	Fresh water	0.6 mg/l	Assessment Factors
	-	Marine water	0.06 mg/l	Assessment Factors
	-	Sewage Treatment Plant	27.5 mg/l	Assessment Factors
	-	Fresh water sediment	8.27 mg/kg	Equilibrium Partitioning
	-	Marine water sediment	0.83 mg/kg	Equilibrium Partitioning
	-	Soil	1.3 mg/kg	Equilibrium Partitioning
2-methoxy-1-methylethyl acetate	-	Fresh water	0.635 mg/l	-
	-	Marine water	0.0635 mg/l	-
	-	Fresh water sediment	3.29 mg/kg	_
	-	Marine water sediment	0.329 mg/kg	-
	-	Soil	0.29 mg/kg	-
	-	Sewage Treatment Plant	100 mg/l	-
ethyl 3-ethoxypropionate	-	Fresh water	0.0609 mg/l	Assessment Factors
	-	Marine water	0.00609 mg/l	Assessment Factors
	-	Fresh water sediment	0.419 mg/kg	-
	-	Marine water sediment	0.0419 mg/kg	-
	-	Soil	0.048 mg/kg	-
	-	Sewage Treatment Plant	50 mg/l	Assessment Factors

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

Product Name:Qotec Nanc Code : QT2KNC+/	
ECTION 8: Exposur	e controls/personal protection
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminated clothing Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety glasses with side shields. Use eye protection according to EN 166.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard shou be worn at all times when handling chemical products if a risk assessment indica this is necessary. Considering the parameters specified by the glove manufactur check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove wi a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and tal into account the particular conditions of use, as included in the user's risk assessment.
Gloves	: For prolonged or repeated handling, use the following type of gloves:
	Recommended: nitrile rubber May be used: polyvinyl alcohol (PVA), Viton®, butyl rubber, Chloroprene
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricit wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer t European Standard EN 1149 for further information on material and design requirements and test methods.
Other skin protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates th is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Product Name	e : Qotec NanoClear+	Date of issue/Date of revision	: 14 March 2020
Code	: QT2KNC+/E5		

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties						
Appearance						
Physical state	:	Liquid.				
Colour	:	Colourless.				
Odour	:	Characteristic.				
Odour threshold	:	Not available.				
рН	:	insoluble in water.				
Melting point/freezing point	:	May start to solidify at the following temperature: <-20°C (<-4°F) This is based on data for the following ingredient: heptan-2-one. Weighted average: -75.66°C (-104.2°F)				
Initial boiling point and boiling range	:	>37.78°C				
Flash point	:	Closed cup: 30°C				
Evaporation rate	:	Highest known value: 1.7 (4-methylpentan-2-one) Weighted average: 1compared with butyl acetate				
Flammability (solid, gas)	:	liquid				
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1% Upper: 9.8% (2-ethoxy-1-methylethyl acetate)				
Vapour pressure	:	Highest known value: 2.1 kPa (15.8 mm Hg) (at 20°C) (4-methylpentan-2-one). Weighted average: 0.81 kPa (6.08 mm Hg) (at 20°C)				
Vapour density	:	Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 3.96 (Air = 1)				
Relative density	:	1				
Solubility(ies)	:	Insoluble in the following materials: cold water.				
Partition coefficient: n-octano	l/:	Not applicable.				
Auto-ignition temperature	:	Lowest known value: 325°C (617°F) (2-ethoxy-1-methylethyl acetate).				
Decomposition temperature	:	Stable under recommended storage and handling conditions (see Section 7).				
Viscosity	:	Kinematic (40°C): <0.14 cm²/s				
Viscosity	:	30 - <40 s (ISO 6mm)				
Explosive properties	:	The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.				
Oxidising properties	:	Product does not present an oxidizing hazard.				

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity				
10.1 Reactivity	: No specific test data related to reactivity available for this product or it	s ingredients.		
10.2 Chemical stability	: The product is stable.			
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will r	iot occur.		
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decompo products.	sition		
English (GB)	United Kingdom (UK)	11/18		

Product Name : Qotec NanoClear+	Date of issue/Date of revision	: 14 March 2020
Code : QT2KNC+/E5		

SECTION 10: Stability and reactivity

Refer to protective measures listed in sections 7 and 8.

10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions:
		oxidising agents, strong alkalis, strong acids.

10.6 Hazardous	:	Depending on conditions, decomposition products may include the following
decomposition products		materials: carbon oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-ethoxy-1-methylethyl acetate	LD50 Oral	Rat	>5000 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapour	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
Hydrocarbons, C9, aromatics	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat -	3492 mg/kg	-
		Female		
heptan-2-one	LC50 Inhalation Vapour	Rat	16.7 mg/l	4 hours
	LD50 Dermal	Rabbit	10.206 g/kg	-
	LD50 Oral	Rat	1.6 g/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapour	Rat	12.3 mg/l	4 hours
	LD50 Oral	Rat	2.08 g/kg	-
2-methoxy-1-methylethyl acetate	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	8532 mg/kg	-
ethyl 3-ethoxypropionate	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	3200 mg/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	LD50 Oral	Rat	3.125 g/kg	-
sebacate				
methyl 1,2,2,6,6-pentamethyl-4-piperidyl	LD50 Oral	Rat	3.125 g/kg	-
sebacate			5 5	

Conclusion/Summary

: There are no data available on the mixture itself.

Acute toxicity estimates

Route	ATE value
Oral	48055.01 mg/kg
Inhalation (vapours)	221.15 mg/l

Irritation/Corrosion

Conclusion/Summary		
Skin	: There are no data available on the mixture itself.	
Eyes	: There are no data available on the mixture itself.	
Respiratory	: There are no data available on the mixture itself.	
Sensitisation		
Conclusion/Summary		
Skin	: There are no data available on the mixture itself.	
Respiratory	: There are no data available on the mixture itself.	
Mutagenicity		
Conclusion/Summary	: There are no data available on the mixture itself.	
Carcinogenicity		
English (GB)	United Kingdom (UK)	

Product Name : Qotec NanoClear+	Date of issue/Date of revision	: 14 March 2020
Code : QT2KNC+/E5		
	- 4	

SECTION 11: Toxicological information

Conclusion/Summary : There are no data available on the mixture itself.

Reproductive toxicity

Conclusion/Summary : There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary

: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of	Target organs
		exposure	
2-ethoxy-1-methylethyl acetate			Narcotic effects
n-butyl acetate	Category 3	Not applicable.	Narcotic effects
Hydrocarbons, C9, aromatics	Category 3	Not applicable.	Narcotic effects
	Category 3	Not applicable.	Respiratory tract irritation
heptan-2-one	Category 3	Not applicable.	Narcotic effects
4-methylpentan-2-one	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Produc	ct/ingredient name	Result	
Hydrocarbons, C9, aromatics ASPIRATION HAZARD - Category 1		ASPIRATION HAZARD - Category 1	
Information on likely routes of exposure	: Not available.		
Potential acute health e	ffects		
Inhalation	: Can cause central nervous sy dizziness.	stem (CNS) depression. May cause drowsiness or	
Ingestion	: Can cause central nervous sy	stem (CNS) depression.	
Skin contact	: Defatting to the skin. May ca	Defatting to the skin. May cause skin dryness and irritation.	
Eye contact	: No known significant effects of	or critical hazards.	
Symptoms related to the	physical, chemical and toxicologi	cal characteristics	
Inhalation	: Adverse symptoms may inclu- nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness	de the following:	
Ingestion	: No specific data.		
Skin contact	: Adverse symptoms may inclu- irritation dryness cracking	de the following:	
Eye contact	: No specific data.		
Delayed and immediate e	effects as well as chronic effects f	rom short and long-term exposure	
Short term exposure Potential immediate effects	: Not available.		
Potential delayed effe	cts : Not available.		
Long term exposure			
<u> </u>			

Code : QT2KNC+/E5	Product Name : Qotec NanoClear+	Date of issue/Date of revision	: 14 March 2020	
	Code : QT2KNC+/E5			

SECTION 11: Toxicological information

Potential immediate : Not available. effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary	: Not available.
General	 Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.
Other information	: Not available.

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethoxy-1-methylethyl acetate	Acute LC50 140 mg/l	Fish	96 hours
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
Hydrocarbons, C9, aromatics	EC50 3.2 mg/l	Daphnia	48 hours
	LC50 9.2 mg/l	Fish	96 hours
heptan-2-one	Acute LC50 131 mg/l	Fish	96 hours
2-methoxy-1-methylethyl acetate	Acute LC50 161 mg/l Fresh	Fish	96 hours
	water		

Conclusion/Summary : There are no data available on the mixture itself.

12.2 Persistence and degradability

Product Name : Qotec NanoClear+		Date of issue/Date of revision	: 14 March 2020
Code	: QT2KNC+/E5		

SECTION 12: Ecological information

Product/ingredient name	Test	Result	Dose	Inoculum
2-ethoxy-1-methylethyl acetate	-	89 % - Readily - 15 days	-	-
n-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days	-	-
Hydrocarbons, C9, aromatics	-	75 % - Readily - 28 days	-	-
heptan-2-one	OECD 310	69 % - Readily - 28 days	-	-

Conclusion/Summary : There are no data available on the mixture itself.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Z-ethoxy-1-methylethyl acetate	-	-	Readily
n-butyl acetate	-	-	Readily
Hydrocarbons, C9, aromatics	-	-	Readily
heptan-2-one	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2-ethoxy-1-methylethyl acetate	0.76	-	low
n-butyl acetate	1.78	-	low
heptan-2-one	1.98	-	low
4-methylpentan-2-one	1.31	-	low
2-methoxy-1-methylethyl acetate	0.56	-	low

12.4 Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product			
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.		
Hazardous waste	: Yes.		
European waste catalogue (EWC)			

English (GB)

Product Name : Qo	tec NanoClear+	Date of issue/Date of revision	: 14 March 2020
Code : Q	T2KNC+/E5		

SECTION 13: Disposal considerations

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)	
Container	15 01 04 metallic packaging	
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.	

14. Transport information

	-			
	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group		===	III	Ξ
14.5 Environmental hazards	No.	Yes.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	Not applicable.

Additional information

ADR/RID	: None identified.
Tunnel code	: (D/E)
ADN	 The product is only regulated as an environmentally hazardous substance when transported in tank vessels.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

14.6 Special precautions for Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk: Not applicable.according to Annex II ofMarpol and the IBC Code

Product Name : Qotec NanoClear+		e : Qotec NanoClear+	Date of issue/Date of revision
	Code	: QT2KNC+/E5	

: 14 March 2020

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable.

on the manufacture, placing on the market

and use of certain dangerous substances,

mixtures and articles

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c

15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation (Regulation (EC) No. 1272/2008)

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway IMDG = International Maritime Dangerous Goods IATA = International Air Transport Association

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Classification	Justification
STOT SE'3, H336	On basis of test data Calculation method Calculation method

Full text of abbreviated H statements

Product Name : Qotec NanoClear+ Code : QT2KNC+/E5	Date of issue/Date of revision : 14 March 2020
SECTION 16: Other informat	ion
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Full text of classifications (CLP/GHS)	
Acute Tox. 4, H302	ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H332	ACUTE TOXICITY (inhalation) - Category 4
Aquatic Acute 1, H400	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 2, H411	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3, H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1
EUH066	Repeated exposure may cause skin dryness or cracking.
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2, H225	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3
Skin Sens. 1, H317	SKIN SENSITISATION - Category 1
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
	(Respiratory tract irritation) - Category 3
STOT SE 3, H336	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
	(Narcotic effects) - Category 3

Date of issue/ Date of	: 14 March 2020	
revision		
Date of previous issue	: 8 January 2020)
Prepared by	: JS	
Version	: 12.16	
Disclaimer		

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.