Material Safety Data She	91	🔊 DSM
SYN®-TC		5038297
Version 1.0	Revision Date 05/21/2012	Print Date 08/07/2012
SECTION 1. PRODUCT AND CO	MPANY IDENTIFICATION	
Product name	: SYN®-TC	
.2 Relevant identified uses of t	the substance or mixture and uses a	dvised against
Use of the Substance/Mixture	: Ingredient for personal care prod	ucts
.3 Details of the supplier of the	e safety data sheet	
Company Telephone Telefax E-mail address	<ul> <li>DSM Nutritional Products</li> <li>45 Waterview Blvd</li> <li>US-07054-1298 Parsippany</li> <li>(908) 475-7373</li> <li>(908) 475-7406</li> <li>sds.nutritionalproducts@dsm.cor</li> </ul>	n
Responsible/issuing person		
.4 Emergency telephone numb		
Emergency # 1-800-424-930	0 (24 HR CHEMTREC)	
OSHA Hazards Potential Health Effects	: NO OSHA HAZARDS	
Potential Health Effects		
Symptoms of Overexposure	: No specific symptoms known.	
Carcinogenicity:		
IARC	No component of this product prese equal to 0.1% is identified as probal	
OSHA	human carcinogen by IARC. No component of this product prese equal to 0.1% is identified as a carc by OSHA.	
NTP	No component of this product prese equal to 0.1% is identified as a know by NTP.	
ACGIH	No component of this product prese equal to 0.1% is identified as a carc by ACGIH.	
Additional hazards and adv	vice	
None known.		
ECTION 3. COMPOSITION/INF	ORMATION ON INGREDIENTS	
	: Mixture (preparation) containing	active ingredients and
Brief description of the product	auxiliary substances	J
	auxiliary substances	5



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Component			CAS-No.	Weight percent
glycerol			56-81-5	60 - 100
TION 4. FIRST AID MEASUR	ES			
First aid procedures				
General advice	:	No hazards	which require special firs	t aid measures.
Inhalation	:	fumes from	sh air in case of accidenta overheating or combustic persist, call a physician.	
Skin contact	:		ntaminated clothing and s th soap and plenty of wat	
Eye contact	:	Remove cor Protect unha		ז.
Ingestion	:	Do not give	n with water and drink afte milk or alcoholic beverag anything by mouth to an u	es.
Notes to physician				
Symptoms	:	No specific s	symptoms known.	
Treatment	:	Treat sympt	omatically.	
TION 5. FIREFIGHTING MEA	SU	RES		
Flammable properties				
Flash point	:	> 428 °F (> 1	220 °C)	
			220 01	
		not determin		
Lower explosion limit	:	not determin	ned	
	:	not determir not determir	ned	
Lower explosion limit	:		ned	
Lower explosion limit	:	not determir Alcohol-resis Dry chemica Use extingu	ned ned stant foam	
Lower explosion limit Upper explosion limit Fire fighting	: :	not determin Alcohol-resis Dry chemica Use extingu circumstanc Collect conta must not be Fire residue	ned ned stant foam al ishing measures that are	nvironment. ng water separately. <sup>-</sup> extinguishing water m
Lower explosion limit Upper explosion limit Fire fighting Suitable extinguishing media	: :	not determin Alcohol-resis Dry chemica Use extingu circumstanc Collect conta must not be Fire residue be disposed	ned stant foam al ishing measures that are es and the surrounding e aminated fire extinguishir discharged into drains. s and contaminated fire e l of in accordance with loo	nvironment. ng water separately. <sup>-</sup> extinguishing water m
Lower explosion limit Upper explosion limit Fire fighting Suitable extinguishing media Further information Protective equipment and pr Specific hazards during	: :	not determin Alcohol-resis Dry chemica Use extingu circumstanc Collect conta must not be Fire residue be disposed	ned stant foam al ishing measures that are es and the surrounding e aminated fire extinguishir discharged into drains. s and contaminated fire e l of in accordance with loc <b>irefighters</b>	nvironment. ng water separately. <sup>-</sup> extinguishing water m
Lower explosion limit Upper explosion limit Fire fighting Suitable extinguishing media Further information Protective equipment and pr	: : : reca	not determin Alcohol-resis Dry chemica Use extingu circumstanc Collect conta must not be Fire residue be disposed autions for fi None known	ned stant foam al ishing measures that are es and the surrounding e aminated fire extinguishir discharged into drains. s and contaminated fire e l of in accordance with loc <b>irefighters</b>	nvironment. ng water separately. extinguishing water m cal regulations.

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for firefighters					
CTION 6. ACCIDEN	NTAL RELEAS	E MEASURE	ES		
Personal precaution	ons :	Use persor	al protective equ	uipment.	
Environmental pre	ecautions :	Try to prevo	ent the material f	rom entering dra	ains or water
Methods for conta Methods for clean		Keep in sui	table, closed cor	ntainers for dispo	osal.
CTION 7. HANDLIN	IG AND STOR	AGE			
Handling					
Handling	:		al protection see handling advice		
Advice on protecti fire and explosion <b>Storage</b>	on against :	Take preca	utionary measur	es against static	discharges.
-	storage .	Keep conta	iner tightly close	d and dry.	
Requirements for			5,		
Requirements for areas and contain Advice on commo	ers		restrictions on st	orage with other	products.
areas and contain	ers n storage :		restrictions on st	orage with other	products.
areas and contain Advice on commo	ers n storage :	No special	restrictions on st	orage with other	products.
areas and contain Advice on commo	ers n storage : ure :	No special 36 - 46 °F (	restrictions on st 2 - 8 °C)		products.
areas and contain Advice on commo Storage temperatu	ers n storage : ure : <b>RE CONTROL</b>	No special 36 - 46 °F (	restrictions on st 2 - 8 °C)		r products.
areas and contain Advice on commo Storage temperatu CTION 8. EXPOSU Exposure Guidel	ers n storage : ure : RE CONTROL ines	No special 36 - 46 °F ( S/PERSONA	restrictions on st 2 - 8 °C)		products.
areas and contain Advice on commo Storage temperatu CTION 8. EXPOSU	ers n storage : ure : RE CONTROL ines	No special 36 - 46 °F ( S/PERSONA	restrictions on st (2 - 8 °C) L PROTECTION Neters		Products.
areas and contain Advice on commo Storage temperatu CTION 8. EXPOSU Exposure Guidel Components with	ers n storage : ure : RE CONTROL ines h workplace c	No special 36 - 46 °F ( S/PERSONA	restrictions on st (2 - 8 °C) L PROTECTION	- N	
areas and contain Advice on commo Storage temperatu CTION 8. EXPOSU Exposure Guidel Components with Components	ers in storage : ure : RE CONTROL ines h workplace co CAS-No. 56-81-5	No special 36 - 46 °F ( S/PERSONA ontrol paran	restrictions on st (2 - 8 °C) AL PROTECTION neters Control parameters 10 mg/m3	N Update	Basis
areas and contain Advice on commo Storage temperatu CTION 8. EXPOSU Exposure Guidel Components with Components	ers in storage : ure : RE CONTROL ines h workplace co CAS-No. 56-81-5	No special 36 - 46 °F ( S/PERSONA ontrol paran	restrictions on st (2 - 8 °C) AL PROTECTION neters Control parameters 10 mg/m3	N Update	Basis
areas and contain Advice on commo Storage temperatu CTION 8. EXPOSU Exposure Guidel Components with Components	ers in storage : ure : RE CONTROL ines h workplace co CAS-No. 56-81-5	No special 36 - 46 °F ( S/PERSONA ontrol paran Value TWA spiratory Tract in	restrictions on st (2 - 8 °C) AL PROTECTION neters Control parameters 10 mg/m3 ritation	N Update 2010-03-01	Basis ACGIH
areas and contain Advice on commo Storage temperatu CTION 8. EXPOSU Exposure Guidel Components with Components	ers in storage : ure : RE CONTROL ines h workplace co CAS-No. 56-81-5 Upper Re	No special 36 - 46 °F ( S/PERSONA ontrol paran Value TWA spiratory Tract in	restrictions on st (2 - 8 °C) AL PROTECTION neters Control parameters 10 mg/m3 ritation	N Update 2010-03-01	Basis ACGIH

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Respiratory protection	: No personal respiratory protective equipment normally required.
Hygiene measures	: General industrial hygiene practice.
CTION 9. PHYSICAL AND CH	
Appearance	
Form	: viscous, liquid
Colour	: colourless - light yellow - opaque
Odour	: none
Odour Threshold	: No information available.
Safety data	
Flash point	: > 220 °C
Ignition temperature	: not determined
Thermal decomposition	no data available
Lower explosion limit	: not determined
Upper explosion limit	: not determined
Flammability (solid, gas)	: Not classified as supporting combustion according to the transport regulations.
Explosive properties	: no data available
Oxidizing properties	: no data available
Autoignition temperature	: no data available
рН	: no data available
Melting point/range	: not determined
Boiling point/boiling range	: not determined
Vapour pressure	: not determined
Density	: not determined
Water solubility	: soluble
Partition coefficient: n- octanol/water	: not applicable
Solubility in other solvents	: Oils and fats: insoluble
Viscosity, dynamic	: not determined
Relative vapour density	: not applicable
Relative density	: 1.15 - 1.22, 20 °C

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:	not determined	
EAC	ΤΙVΙΤΥ	
:	No hazards to be specially mentic	oned.
:	Stable under recommended stora	ge conditions.
:	Possible incompatibility with mate 10.5.	rials listed under section
:	Heat.	
:	Strong acids and strong bases Strong oxidizing agents	
:	No decomposition if used as direc	cted.
INF	DRMATION	
:	no data available	
:	No skin irritation (human, Patch T Test substance: active ingredient	est 48 Hrs.)
:	May irritate eyes., Test substance	e: active ingredient
:	Did not cause sensitization. (huma Insult Patch Test) Test substance: active ingredient	an, HRIPT: Human Repeat
:	This information is not available.	
:	not mutagenic (Ames test, OECD Test substance: active ingredient	Test Guideline 471)
:	This information is not available.	
:	This information is not available.	
ORN	IATION	
odu	ct itself.	
	EAC : : : :	Revision Date 05/21/2012         : not determined         EACTIVITY         : No hazards to be specially mention         : Stable under recommended storading         : Possible incompatibility with mater 10.5.         : Heat.         : Strong acids and strong bases Strong oxidizing agents         : No decomposition if used as direct         INFORMATION         : no data available         : No skin irritation (human, Patch T Test substance: active ingredient         : May irritate eyes., Test substance         : Did not cause sensitization. (hum Insult Patch Test)         Test substance: active ingredient         : This information is not available.         : This information is not available.         : not mutagenic (Ames test, OECD

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Biodegradability	: no data available	
Bioaccumulative potential		
Bioaccumulation Partition coefficient: n- octanol/water	<ul><li>no data available</li><li>not applicable</li></ul>	
Mobility in soil		
Distribution among environmental compartments	: no data available	
Results of PBT and vPvB asses	sment	
Assessment	<ul> <li>This mixture contains no substar persistent, bioaccumulating nor t</li> <li>This mixture contains no substar persistent nor very bioaccumulat</li> </ul>	oxic (PBT). nce considered to be very
Other adverse effects		
Additional ecological information	: There is no data available for this	s product.
SECTION 13. DISPOSAL CONSI	DERATIONS	
Further information	: Offer surplus and non-recyclable disposal company.	solutions to a licensed
	User must determine if any wasten hazardous characteristics as per national / local legislation.	
Contaminated packaging	: Empty containers should be take handling site for recycling or disp	
SECTION 14. TRANSPORT INFO	RMATION	
<b>DOT</b> Not dangerous goods		
<b>TDG</b> Not dangerous goods		
IATA Not dangerous goods		
IMDG Not dangerous goods		
Special precautions for use Not classified as dangerous in	<b>r</b> h the meaning of transport regulations	
Transport in bulk according	to Annex II of MARPOL 73/78 and	the IBC Code
not applicable		
SECTION 15. REGULATORY INF	ORMATION	
OSHA Hazards	: No OSHA Hazards	

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CERCLA Reportable Quantity This material does not contain SARA 311/312 Hazards	: n any components with a CERCL/ : No SARA Hazards	A RQ.
OARA ST 1/312 Hazards	. 10 0/10/11/22/03	
EPCRA - EMERGENCY PLA	NNING COMMUNITY RIGHT - T	O – KNOW
SARA 302 Reportable Quantity This material does not contain SARA 304 Extremely Hazardous Substances SARA 313 Components	<ul> <li>SARA 302: No chemicals in the reporting requirements of SAR any components with a SARA 3</li> <li>This material does not contain 304 EHS RQ.</li> <li>SARA 313: This material does components with known CAS threshold (De Minimis) reportin Title III, Section 313.</li> </ul>	RA Title III, Section 302. 02 RQ. any components with a section s not contain any chemical
Clean Air Act		
Accidental Release Prevention	Section 602 (40 CFR 82, Subp any chemicals listed under the U on (40 CFR 68.130, Subpart F). any hazardous air pollutants (HA	ined by the U.S. Clean Air Act pt. A, App.A + B). I.S. Clean Air Act Section 112(r)
The following chemical(s) are under the U.S. Clean Air Act Section 111 SOCMI Intermed	liate or	69.2 %
Final VOC's (40 CFR 60.489)		
Clean Water Act		
<b>Clean Water Act</b> This product does not contain Section 311, Table 116.4A.	n any Hazardous Substances liste n any Hazardous Chemicals listed	
<b>Clean Water Act</b> This product does not contain Section 311, Table 116.4A. This product does not contain	n any Hazardous Substances liste	
Clean Water Act This product does not contain Section 311, Table 116.4A. This product does not contain Section 311, Table 117.3. US State Regulations Massachusetts Right To	n any Hazardous Substances liste	
Clean Water Act This product does not contain Section 311, Table 116.4A. This product does not contain Section 311, Table 117.3. US State Regulations	n any Hazardous Substances liste	
Clean Water Act This product does not contain Section 311, Table 116.4A. This product does not contain Section 311, Table 117.3. US State Regulations Massachusetts Right To Know Components	n any Hazardous Substances liste n any Hazardous Chemicals listed	under the U.S. CleanWater Act
Clean Water Act This product does not contain Section 311, Table 116.4A. This product does not contain Section 311, Table 117.3. US State Regulations Massachusetts Right To Know Components Pennsylvania Right To Know Components	n any Hazardous Substances liste n any Hazardous Chemicals listed : glycerol	under the U.S. CleanWater Act 56-81-5
Clean Water Act This product does not contain Section 311, Table 116.4A. This product does not contain Section 311, Table 117.3. US State Regulations Massachusetts Right To Know Components Pennsylvania Right To Know Components New Jersey Right To Know Components	n any Hazardous Substances liste n any Hazardous Chemicals listed : glycerol : glycerol : glycerol	under the U.S. CleanWater Act 56-81-5 56-81-5 56-81-5
Clean Water Act This product does not contain Section 311, Table 116.4A. This product does not contain Section 311, Table 117.3. US State Regulations Massachusetts Right To Know Components Pennsylvania Right To Know Components New Jersey Right To Know Components New Jersey Right To Know	n any Hazardous Substances liste n any Hazardous Chemicals listed : glycerol : glycerol : glycerol	under the U.S. CleanWater Act 56-81-5 56-81-5 56-81-5
Clean Water Act This product does not contain Section 311, Table 116.4A. This product does not contain Section 311, Table 117.3. US State Regulations Massachusetts Right To Know Components Pennsylvania Right To Know Components New Jersey Right To Know Components	<ul> <li>any Hazardous Substances liste</li> <li>any Hazardous Chemicals listed</li> <li>glycerol</li> <li>glycerol</li> <li>glycerol</li> <li>glycerol</li> <li>bduct are reported in the followi</li> <li>Not On TSCA Inventory</li> <li>L-Lysine, N2-(1-oxohexadecyl lysyl-L-valyl-, bis(trifluoroaceta L-Threonine, N2-(1-oxohexadecyl lysyl-L-valyl-, bis(trifluoroaceta L-Threonine, N2-(1-oxohexadecyl lysyl-L-valyl-, 25)-2,4- diaminobutanoyl-,</li> </ul>	under the U.S. CleanWater Act 56-81-5 56-81-5 56-81-5 <b>ng inventories:</b> I)-L- 623172-56-5 ate)
Clean Water Act This product does not contain Section 311, Table 116.4A. This product does not contain Section 311, Table 117.3. US State Regulations Massachusetts Right To Know Components Pennsylvania Right To Know Components New Jersey Right To Know Components New Jersey Right To Know	<ul> <li>any Hazardous Substances liste</li> <li>any Hazardous Chemicals listed</li> <li>glycerol</li> <li>glycerol</li> <li>glycerol</li> <li>glycerol</li> <li>bduct are reported in the followi</li> <li>Not On TSCA Inventory</li> <li>L-Lysine, N2-(1-oxohexadecyl lysyl-L-valyl-, bis(trifluoroaceta L-Threonine, N2-(1-oxohexadecyl L-lysyl-L-valyl-(2S)-2,4-</li> </ul>	under the U.S. CleanWater Act 56-81-5 56-81-5 56-81-5 <b>ng inventories:</b> I)-L- 623172-56-5 ate)

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DSL	3,6,9,11-Tetraazapentacosanoic acid, 2,8-bis(2-aminoethyl)-5-(1- methylethyl)-4,7,10-trioxo-, (2S,5S,8S)-, 2,2,2-trifluoroacetate This product contains the following the Canadian DSL nor NDSL lists. L-Lysine, N2-(1-oxohexadecyl)-L- lysyl-L-valyl-, bis(trifluoroacetate) L-Threonine, N2-(1-oxohexadecyl)- L-lysyl-L-valyl-, bis(trifluoroacetate) L-Threonine, N2-(1-oxohexadecyl)- L-lysyl-L-valyl-(2S)-2,4- diaminobutanoyl-, bis(trifluoroacetate) (salt) 3,6,9,11-Tetraazapentacosanoic acid, 2,8-bis(2-aminoethyl)-5-(1- methylethyl)-4,7,10-trioxo-, (2S,5S,8S)-, 2,2,2-trifluoroacetate	623172-56-5
ECTION 16. OTHER INFORM	ATION	
Further information		
HMIS Classification	: Health hazard: 0 Flammability: 1 Physical hazards: 0	
NFPA Classification	: Health hazard: 0 Fire Hazard: 1 Reactivity Hazard: 0	
information and belief at the a guidance for safe handling and is not to be considered the specific material designa with any other materials or i E-mail address	this Safety Data Sheet is correct to the leader of its publication. The information g, use, processing, storage, transportation a warranty or quality specification. The i ated and may not be valid for such mate n any process, unless specified in the term of the state of the sta	best of our knowledge, given is designed only as on, disposal and release nformation relates only to rial used in combination ext.
information and belief at the a guidance for safe handling and is not to be considered the specific material designa with any other materials or i E-mail address Responsible/issuing person <b>bbreviations:</b> ACGIH = Americ comprehensive Environmental R Begulations. CPR = Controlled P Department of Transportation. Substances. EPA = Environment IEPA = High Efficiency Particula Iternational Agency for Research ternational Maritime Dangerous lational Institute of Occupationa ITP = National Toxicology Program	e date of its publication. The information g, use, processing, storage, transportatio a warranty or quality specification. The i ated and may not be valid for such mate n any process, unless specified in the te : sds.nutritionalproducts@dsm.cor	best of our knowledge, given is designed only as on, disposal and release nformation relates only to rial used in combination ext. n rial Hygienists. CERCLA = ct. CFR = Code of Federal Domestic Substance List. DO and Existing Chemical s Communication Standard. tification System. IARC = ransport Association. IMDG = n Association. NIOSH = ey Trade Secret Registry. Health Administration. SARA

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The 1999 Barrier Tool		

Threshold Limit Value. TSCA = Toxic Substance Control Act. WHMIS = Workplace Hazardous Materials Information System.