

Current version: 4.1.0, issued: 06.04.2022 Reglaced version: 4.0.0, issued: 08.10.2021 Region: GB

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

1.1 Product identifier

Trade name

Nitrocellulose with ethanol / Category 3

Hacocell 30% - AH 9 - AH 15 / H 4 - H 33 / H 17 spez.

Hacocell 35% - H 4 - H 10

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

Relevant identified uses of the substance or mixture

Industrial Nitrocellulose is used as a binder and or film former in the manufacture of coatings, cosmetics, inks, paints and personal care items.

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

HAGEDORN-NC GmbH Rheiner Landstraße 195 A 49078 D-Osnabrück

Telephone no. +49 (0) 541 94044-0 Fax no. +49 (0) 541 94044-43 e-mail hagedorn@hagedorn.de

Information provided by / telephone

Labor Werk Lingen +49 (0) 591 9148-22; E-Mail: labor@hagedorn.de

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Desen. Expl. 3; H207 Eye Irrit. 2; H319

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms





Signal word



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Warning

Hazard statement(s)

H207 Fire or projection hazard; increased risk of explosion if desensitising agent is reduced.

H319 Causes serious eye irritation.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smokina.

P212 Avoid heating under confinement or reduction of the desensitising agent.

P230 Keep wetted with ethanol.
P233 Keep container tightly closed.

P243 Take action to prevent static discharges.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P380+P375 In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

P370+P378 In case of fire: Use water to extinguish.

2.3 Other hazards

Heating Industrial NC under confinement may lead to an explosion. Therefore Industrial NC products must never be heated under confinement. Nitrocellulose can be ignited by flame, heat, shock, impact, friction, sparks or static electricity. In cases of fire and decomposition of nitrocellulose, toxic gases may be produced in some circumstances (See section 5).

Nitrocellulose decomposes in contact with strong acids and strong alkalis.

PBT assessment

No data available.

vPvB assessment

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Mixture of nitrocellulose with phlegmatizing agent

Hazardous ingredients

No	Substance name		Addit	ional information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Conc	entration	%
	REACH no				
1	cellulose nitrate (<	12.6% N)			
	9004-70-0	Expl. 1.1; H201	>=	50.00 - < 70.00	wt%
	-				
	603-037-00-6				
	-				
2	ethanol		pls. re	efer to footnote (1)	
	64-17-5	Flam. Liq. 2; H225	>=	25.00 - < 50.00	wt%
	200-578-6	Eye Irrit. 2; H319			
	603-002-00-5				
	01-2119457610-43				
3	propan-2-ol				
	67-63-0	Eye Irrit. 2; H319	<	2.50	wt%
	200-661-7	Flam. Liq. 2; H225			
	603-117-00-0	STOT SE 3; H336			
	01-2119457558-25				

Full Text for all H-phrases and EUH-phrases: pls. see section 16

⁽¹⁾ Aberrant from/in addition to the classification set out in Annex VI, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.



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No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	Т	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a doctor immediately.

After skin contact

Instantly wash with copious amounts of water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Begin with medical treatment.

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

Exposure to vapours or materials of combustion may give rise to headache, dizziness, drowsiness, nausea and delayed breathing difficulties. Eye pain redness, tearing, swelling of eyelids, itching. Prolonged skin contact may result in irritation.

4.3 Indication of any immediate medical attention and special treatment needed

If breathing is difficult or patient show signs of lack of consciousness, seek immediate medical assistance.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Burning nitrocellulose can only be extinguished by large quantities of water applied as mist or spray.

Unsuitable extinguishing media

Sand, CO2, foam or dry powder will NOT extinguish burning nitrocellulose and must not be used.

5.2 Special hazards arising from the substance or mixture

Burning nitrocellulose may produce toxic fumes in some circumstances. The fumes may contain nitrous gases if there is insufficient oxygen for combustion.

After the fire is extinguished, material may be unstable, could reignite or produce toxic fumes. Therefore ensure that residual material is thoroughly wetted with water.

5.3 Advice for firefighters

Evacuate the area. Fight fire remotely due to the risk of an explosion.

Fire-fighters must work from the windward side and should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not inhale vapours. Keep away from ignition sources.



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For emergency responders

Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Spilled nitrocellulose must be thoroughly wetted with plenty of water, swept up carefully and kept in tightly closed watertight container, see section 13. Use tools that do not produce sparks, see section 7.

6.4 Reference to other sections

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Do not drop, slide, roll or bang the drums. Keep away from flame, heat, shock, impact, friction, sparks or static electricity.

Do not allow wetted nitrocellulose to dry out, because nitrocellulose becomes more sensitive in the dry state. Keep wetted with ethanol.

If nitrocellulose has dried out, immediately re-damp with ethanol. Keep container tightly closed when not in use.

Ensure adequate ventilation. Pull polyethylene liner, carefully down over the outside of the package.

Ensure package is completely grounded/earthed during emptying.

Do not remove the liner from the package during emptying.

Tools used with nitrocellulose should be of non-ferrous materials such as copper, brass, wood or anti-static plastic.

Tools made of standard plastic material must not be used because of their tendency to produce static electricity.

Avoid contact with strong alkaline and acidic materials, amines or oxidising agents.

Keep quantity of product in the processing area to a minimum.

This would not be expected to exceed the amount necessary for one shift.

Do not allow nitrocellulose to enter drains or water courses.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale dust. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

Advice on protection against fire and explosion

Handle with caution - Avoid shock, impact and friction. Isolate from sources of heat, sparks and open flame. Take precautionary measures against static charges. Never allow nitrocellulose to dry out, because nitrocellulose can react sensitively when dry. Use explosion-proof equipment/fittings and non-sparking tools.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight. Keep away from sources of ignition.

Recommended storage temperature

Value < 40 °C

Storage stability

Comments Nitrocellulose should be used within two years of the date of manufacture. This applies to nitrocellulose stored in original, unopened packages.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

Incompatible products

Substances to be avoided, see section 10. Do not store with combustible materials.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection



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8.1 Control parameters

Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	ethanol	64-17-5		200-578-6	
	List of approved workplace exposure limits (WELs) / I	EH40			
	Ethanol				
	WEL long-term (8-hr TWA reference period)	1920	mg/m³	1000	ppm
2	propan-2-ol	67-63-0		200-661-7	
	List of approved workplace exposure limits (WELs) / I	EH40			
	List of approved workplace exposure limits (WELs) / I Propan-2-ol	EH40			
		1250	mg/m³	500	ppm

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	ethanol			64-17-5	
				200-578-6	
	dermal	Long term (chronic)	systemic	343	mg/kg/day
	inhalative	Long term (chronic)	systemic	950	mg/m³
2	propan-2-ol			67-63-0	
				200-661-7	
	dermal	Long term (chronic)	systemic	888	mg/kg/day
	inhalative	Long term (chronic)	systemic	500	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC	no
	Route of exposure	Exposure time	Effect	Value	
1	ethanol			64-17-5	
				200-578-6	3
	oral	Long term (chronic)	systemic	87	mg/kg/day
	dermal	Long term (chronic)	systemic	206	mg/kg/day
	inhalative	Long term (chronic)	systemic	114	mg/m³
2	propan-2-ol			67-63-0	
				200-661-7	7
	oral	Long term (chronic)	systemic	26	mg/kg/day
	dermal	Long term (chronic)	systemic	319	mg/kg/day
	inhalative	Long term (chronic)	systemic	89	mg/m³

PNEC values

	1 NEO Values		010/50	
No	Substance name		CAS / EC no	
	ecological compartment	Туре	Value	
1	ethanol		64-17-5	
			200-578-6	
	water	fresh water	0.96	mg/L
	water	marine water	0.79	mg/L
	water	fresh water sediment	3.6	mg/kg dry
				weight
	water	marine water sediment	2.9	mg/kg dry
				weight
	soil	-	0.63	mg/kg
	sewage treatment plant	-	580	mg/L
	secondary poisoning	-	0.38	mg/kg food
2	propan-2-ol		67-63-0	
			200-661-7	
	water	fresh water	140.9	mg/L
	water	Aqua intermittent	140.9	mg/L



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water	marine water	140.9	mg/L
water	fresh water sediment	552	mg/L
water	marine water sediment	552	mg/L
soil	-	28	mg/kg
sewage treatment plant	-	2251	mg/L
secondary poisoning	-	160	mg/kg
with reference to: food			

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn. Concentration of solvent in the workplace atmosphere should be monitored. Use effective local exhaust to keep the concentration of damping agents below the exposure limits.

Monitoring Methods:

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event that workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (EN 166); Face shield

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves. anti-static gloves

Appropriate Material butyl rubber

Material thickness > 0.5 mm
Breakthrough time > 8 h

Other

Fire-resistant antistatic protective clothing. Antistatic shoes

Environmental exposure controls

The material should be used in closed equipment. Keep container tightly closed when not in use.

Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation
solid
Form/Colour
Fibre; granules / flakes
white

Odour	
according to moistening agent	

pH value	
Comments	Test not possible due to the kind of product.

Boiling point / boiling range				
Value	79	- 80	°C	

cellulose nitrate (<12.6% N)



Trade name: Nitrocellulose with ethanol / Category 3

Reference substance	Ethanol				
Melting point/freezing point					
No data available					
Decomposition temperature					
Value	>	180	°C		
Comments	Deflagration ten	perature	of NC wool		
Flash point					
Value		12	°C		
Method Reference substance	Abel-Pensky				
Reference substance	Ethanol				
Ignition temperature					
No data available					
Auto-ignition temperature					
Value	>	180	°C		
Explosive properties					
Risk of explosion if heated under confinement.					
Flammability					
highly flammable					
Lower explosion limit					
Value		3.5	% vol		
Reference substance	Ethanol				
Upper explosion limit					
Value		15.0	% vol		
Reference substance	Ethanol				
Vapour pressure					
Value		58.1	mbar		
Reference temperature Reference substance	Ethanol	20	°C		
	Ethanol				
Relative vapour density	T	4.0			
Value Reference substance	Ethanol	1.6			
	Litiation				
Evaporation rate		0.0			
Value Reference substance	Ethanol	8.3			
	Ethanor				
Relative density No data available					
Density Value	>		less/alma3		
	2	1	kg/dm³		
Bulk density	1 252		1 / 2		
Value	250	- 600	kg/m³		
Solubility in water					
Comments	insoluble				
Solubility					
No data available					
Soluble in					
esters; Ketones; glycol ether					
Partition coefficient n-octanol/water (log value	ie)				
No Substance name		AS no.		EC no.	

9004-70-0



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I D			^		
log Pow	<		0		
2 ethanol		64-17-5		200-578-6	
log Pow			-0.35		
Reference temperature			24	°C	
Method	OECD 107				
Source	ECHA				
3 propan-2-ol		67-63-0		200-661-7	
log Pow			0.05		
Reference temperature			25	°C	
Source	ECHA				

Viscosity	
No data available	

Particle characteristics

9.2 Other information

Other information	
Desensitising Agent	Ethanol
Exothermic Decomposition Energy	2930 – 3841 kj/kg
Corrected Burning rate Ac.:	
These industrial nitrocellulose products have	we a corrected burning rate (Δc) equal to or greater than 60 kg/min but less

These industrial nitrocellulose products have a corrected burning rate (Ac) equal to or greater than 60 kg/min but less than 140 kg/min, determined by the test method described in subsection 51.4 of the UN Recommendations

SECTION 10: Stability and reactivity

10.1 Reactivity

Industrial nitrocellulose products show a limiting diameter of >2 mm in the test series 2(b) Koenen Test of the UN Manual of Tests and Criteria. This test result shows that industrial nitrocellulose products are sensitive to heating under confinement. Heating Industrial nitrocellulose under confinement may lead to an explosion. Therefore industrial nitrocellulose products must never be heated under confinement.

If allowed to dry out, industrial nitrocellulose becomes significantly more sensitive to heat, friction and static electricity. The burning rate of dry nitrocellulose is approximately 50 times that of 30% solvent damped material.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

Exothermic reactions are possible in the event of contact with incompatible substances.

10.4 Conditions to avoid

Heat, naked flames or other ignition sources, electrostatic charge and discharge, formation of vapours/aerosols. Prevent evaporation of the moistening agent.

10.5 Incompatible materials

Alkalis; corrosive substances; Amines; Oxidizing agents

10.6 Hazardous decomposition products

In case of fire: see section 5.

SECTION 11: Toxicological information

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

Acu	Acute oral toxicity						
No	Substance name		CAS no.		EC no).	
1	cellulose nitrate (<12.6% N)		9004-70-0		-		
LD5	0	>		5000		mg/kg bodyweight	
Spec	cies	rat					
2	ethanol		64-17-5		200-5	78-6	
LD5	0			10470		mg/kg bodyweight	
Spe	cies	rat					



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Method Source	OECD 401 ECHA	
3 propan-2-ol	67-63-0	200-661-7
LD50	5840	mg/kg bodyweight
Species	rat	
Method	OECD 401	
Source	ECHA	
Evaluation/classification	Based on available data, the classificati	on criteria are not met.

Acute dermal toxicity No data available

Acut	Acute inhalational toxicity					
No	Substance name		CAS no.		EC no.	
1	ethanol		64-17-5		200-57	8-6
LC50	0			124.7		mg/l
Dura	tion of exposure			4		h
State	e of aggregation	Vapour				
Spec	cies	rat				
Meth	Method					
Sour	ce	ECHA				
2	propan-2-ol		67-63-0		200-66	1-7
LC50	0	>		10000		ppmV
Dura	tion of exposure			6		h
State	e of aggregation	Vapour				
Spec	cies	rat				
Meth	nod	OECD 403				
Sour	ce	ECHA				
Eval	uation/classification	Based on ava	ailable data, the	classification	criteria	are not met.

No	Substance name		CAS no.		EC no.
1	cellulose nitrate (<12.6% N)		9004-70-0		-
Dura	ation of exposure			4	h
Spe	cies	rabbit			
Metl	hod	OECD 404			
Eval	luation	non-irritant			
2	ethanol		64-17-5		200-578-6
Spe	cies	rabbit			
Metl	hod	OECD 404			
Sou	rce	ECHA			
Eval	luation	non-irritant			
3	propan-2-ol		67-63-0		200-661-7
Spe	cies	rabbit			
Sou	rce	ECHA			
Eval	luation	non-irritant			
Eval	luation/classification	Based on av	ailable data, the	classifica	ation criteria are not met.

Seri	ous eye damage/irritation				
No	Substance name		CAS no.		EC no.
1	cellulose nitrate (<12.6% N)		9004-70-0		-
Dura	ation of exposure			24	h
Spe	cies	rabbit			
Meth	nod	OECD 405			
Eval	uation	non-irritant			
2	ethanol		64-17-5		200-578-6
Spe	cies	rabbit			
Meth	nod	OECD 405			
Sou	rce	ECHA			
Eval	uation	irritant			
3	propan-2-ol		67-63-0		200-661-7
Spe	cies	rabbit			
Meth	nod	OECD 405			



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Source	ECHA
Evaluation	irritant
Evaluation/classification	Based on available data, the classification criteria are met.

Res	Respiratory or skin sensitisation							
No	Substance name	CAS no.	EC no.					
1	propan-2-ol	67-63-0	200-661-7					
Rou	te of exposure	Skin						
Spe	cies	guinea pig						
Meth	nod	OECD 406						
Sou	rce	ECHA						
Eval	Evaluation non-sensitizing							
Eval	Evaluation/classification Based on available data, the classification criteria are not met.							

Germ cell mutagenicity							
No	Substance name	CAS no.	EC no.				
1	ethanol	64-17-5	200-578-6				
Meth	nod	OECD 471					
Sou	rce	ECHA					
Eval	uation/classification	Based on available data, the class	sification criteria are not met.				
2	propan-2-ol	67-63-0	200-661-7				
Sou	rce	ECHA					
Eval	uation/classification	Based on available data, the classification criteria are not met.					

Rep	Reproduction toxicity							
No	Substance name	CAS no.	EC no.					
1	ethanol	64-17-5	200-578-6					
Meth	nod	OECD 416						
Soul	rce	ECHA						
Eval	Evaluation/classification Based on available data, the classification criteria are not met.							

Carcinogenicity	
No data available	

STOT - single exposure	
No data available	

STO	STOT - repeated exposure						
No	Substance name	CAS no.	EC no.				
1	propan-2-ol	67-63-0	200-661-7				
Rou	e of exposure	inhalational					
Soul	ce	ECHA					
Eval	uation/classification	Based on available data, the classification criteria are not met.					

Aspiration hazard	
No data available	

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxi	Toxicity to fish (acute)						
No	Substance name	CAS no.		EC no.			
1	cellulose nitrate (<12.6% N)	9004-70-	-0	•			
LC5	0	>	5000	mg/l			
Dura	ation of exposure		96	h			
Spe	cies	Brachydanio rerio					
Meth	nod	OECD 203					



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2	ethanol	64-17-5		200-578-6
LC5	0		15300	mg/l
Dura	ation of exposure		96	h
Spec	cies	Pimephales promelas		
Meth	nod	US EPA E03-05		
Sour	rce	ECHA		
3	propan-2-ol	67-63-0		200-661-7
LC5	0		9640	mg/l
Dura	ation of exposure		96	h
Spec	cies	Pimephales promelas		
Meth	nod	OECD 203		
Sour	rce	ECHA		

Toxi	Toxicity to fish (chronic)						
No	Substance name		CAS no.		EC no.		
1	ethanol		64-17-5		200-578-6		
NOE	EC .			250	mg/l		
Dura	ation of exposure			120	h		
Spec	cies	Danio rerio					
Meth	nod	OECD 212					
Soul	rce	ECHA					

Tox	icity to Daphnia (acute)			
No	Substance name	CAS no.		EC no.
1	cellulose nitrate (<12.6% N)	9004-70-0		-
EC5	0	>	10000	mg/l
Dura	ation of exposure		48	h
Spe	cies	Daphnia magna		
Sou	rce	OECD 202		
2	ethanol	64-17-5		200-578-6
EC5	0		5012	mg/l
Dura	ation of exposure		48	h
Spe	cies	Ceriodaphnia dubia		
Metl	nod	ASTM Standard E 729-80		
Sou	rce	ECHA		
3	propan-2-ol	67-63-0		200-661-7
EC5	0	>	10000	mg/l
Dura	ation of exposure		24	h
Spe	cies	Daphnia magna		
Metl	nod	OECD 202		
Sou	rce	ECHA		

Toxicity to Daphnia (chronic) No data available

Toxicity to algae (acute)					
No Substance name		CAS no.		EC no.	
1 cellulose nitrate (<12.6% N)		9004-70-0		-	
EC50	>		10000	n	ng/l
Duration of exposure			78	h	1
Species	Algae				
Method	OECD 201				
2 ethanol		64-17-5		200-578	-6
ErC50			275	n	ng/l
Duration of exposure			72	h	1
Species	Chlorella vul	garis			
Method	OECD 201				
Source	ECHA				

Toxicity to algae (chronic)	
No data available	

Bac	teria toxicity		
No	Substance name	CAS no.	EC no.



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1 cellulose nitrate (<12.6% N)	9004	-70-0 ·	
EC50	>	10000	mg/l
Species	bacteriae		-
Method	OECD 209		

12.2 Persistence and degradability

Biodegradability			
No Substance name	CAS no.		EC no.
1 cellulose nitrate (<12.6% N)	9004-70-0		-
Value	appr.	20	%
Duration		28	day(s)
Method	OECD 301 B		
Туре	COD		
Value		460	mg/L
Method	DIN 38409 T.41		-
Туре	BOD		
Value		0	mgO2/l
with reference to	20 mg/l		
Method	DIN 38409 H51		
2 ethanol	64-17-5		200-578-6
Value		96	%
Duration		20	day(s)
Source	ECHA		
Evaluation	readily biodegradable		
3 propan-2-ol	67-63-0		200-661-7
Туре	BOD/COD		
√alue		53	%
Duration		5	day(s)
Source	ECHA		
Evaluation	readily biodegradable		

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)				
No	Substance name	CAS no.	EC no.	
1	cellulose nitrate (<12.6% N)	9004-70-0	-	
Eva	luation/classification	no evidence for bioakkumulation		

Part	Partition coefficient n-octanol/water (log value)					
No	Substance name		CAS no.		EC no.	
1	cellulose nitrate (<12.6% N)		9004-70-0		-	
log F	Pow	<		0		
2	ethanol		64-17-5		200-578-6	
log F	Pow			-0.35		
Refe	erence temperature			24	°C	
Meth	nod	OECD 107				
Soul	rce	ECHA				
3	propan-2-ol		67-63-0		200-661-7	
log F	Pow			0.05		
Refe	erence temperature			25	°C	
Soul	rce	ECHA				

12.4 Mobility in soil

	in the same of the					
M	Mobility in soil					
No	Substance name	CAS no.	EC no.			
1	cellulose nitrate (<12.6% N)	9004-70-0	-			
Evaluation/classification Nitrocellulose is insoluble in water and will not be mobile in soil.		will not be mobile in soil.				

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	No data available.
vPvB assessment	No data available.



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12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

It is recommended that small quantities of nitrocellulose should be dissolved prior to destruction as waste NC-lacquer. European Waste Catalogue (EWC) 08 01 11.

Waste disposal should be in accordance with national, state and local environmental regulations.

Sewage disposal shall be discouraged. Do not allow into drains or water courses.

Packaging

Empty package retains hazardous residue. Observe all label precautions. Keep away from heat, sparks and flames. Do not weld or use cutting torch on or near the package.

With the earth/ground clip still in place, fold the liner into the empty package. Remove the earth clip and replace the lid of the drum or close the box.

Transfer the package to a non-hazardous area and remove the bag for disposal. The bag will contain a residue of nitrocellulose and must be disposed of as hazardous waste. Ensure that the residual nitrocellulose in the bag does not dry out before disposal.

Remove all labels from the package. Then offer the package for recycling/reconditioning or puncture or otherwise destroy empty package and dispose of in a facility permitted for non hazardous waste.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class 4.1
Classification code D
Packing group II
UN number UN2556

Proper shipping name NITROCELLULOSE WITH ALCOHOL

Tunnel restriction code B Label 4.1

14.2 Transport IMDG

Class 4.1
Packing group II
UN number UN2556

Proper shipping name NITROCELLULOSE WITH ALCOHOL

EmS F-B, S-J Label 4.1

14.3 Transport ICAO-TI / IATA

Class 4.1
Packing group II
UN number UN2556

Proper shipping name Nitrocellulose with alcohol

Label 4.1

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.



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14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	propan-2-ol	67-63-0	200-661-7	75

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H201 Explosive; mass explosion hazard. H225 Highly flammable liquid and vapour. H336 May cause drowsiness or dizziness.

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s)

shall be included in the safety data sheet.

Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

EU safety data sheet



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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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