

Asplit® VP 788 Solution

Safety Data Sheet

according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272
Issue date: 02-28-2013 Revision date: 04-29-2026 Supersedes: 04-22-2022 Version: 1.4
SDS No: 00359-1151

SECTION 1 Identification

1.1. GHS Product identifier

Product form : Mixture
Product name : Asplit® VP 788 Solution
Product code : 592 0080, 592 0081, 592 0082

1.2. Other means of identification

No additional information available.

1.3. Recommended use of the chemical and restrictions on use

Recommended use : putties

1.4. Supplier's details

Importer

REMA TIP TOP / North America Inc.

1500 Industrial Blvd

Madison, GA 30650, USA

USA

T +1 800 225 7362

www.rematiptop.com

E-mail address of competent person responsible for the SDS: sds@gbk-ingelheim.de

1.5. Emergency phone number

Emergency number : INTERNACIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)
(USA domestic) 1 800 535 5053 or international (001) 352 323 3500 Infotrac/GBK GmbH-ID:
93591

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Flammable liquids, Category 4	H227	Combustible liquid.
Acute toxicity (oral), Category 3	H301	Toxic if swallowed.
Acute toxicity (dermal), Category 4	H312	Harmful in contact with skin.
Acute toxicity (inhalation), Category 3	H331	Toxic if inhaled.
Skin corrosion/irritation, Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation, Category 2	H319	Causes serious eye irritation.
Skin sensitization, Category 1	H317	May cause an allergic skin reaction.
Carcinogenicity, Category 2	H351	Suspected of causing cancer.
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation.
Specific target organ toxicity, Repeated exposure, Category 2	H373	May cause damage to organs through prolonged or repeated exposure.

Full text of H statements : see section 16

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2.2. GHS label elements, including precautionary statements

GHS CA labeling

Hazard pictograms (GHS CA)



Signal word (GHS CA) : Danger

Hazard statements (GHS CA)

: H227 - Combustible liquid
H301+H331 - Toxic if swallowed or if inhaled
H312 - Harmful in contact with skin
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H351 - Suspected of causing cancer.

Precautionary statements (GHS CA)

: P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe vapors.
P280 - Wear eye protection, face protection, protective gloves, protective clothing.
P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER.
P302+P352 - IF ON SKIN: Wash with plenty of water.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - IF exposed or concerned: Get medical advice, Get medical attention.
P405 - Store locked up

2.3. Other hazards which do not result in classification

No additional information available.

SECTION 3 Composition/information on ingredients

Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
furfuryl alcohol	furfuryl alcohol	CAS-No.: 98-00-0	~ 45	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373
Phenol	phenol, carboic acid, monohydroxybenzene, phenylalcohol	CAS-No.: 108-95-2	~ 0.4	Not classified

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Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
N-(3-(trimethoxysilyl)propyl)ethylenediamine	-	CAS-No.: 1760-24-3	~ 0.1	Not classified
Formaldehyde	formaldehyde ...%	CAS-No.: 50-00-0	< 0.1	Carc. 1B, H350 Muta. 2, H341 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Phenol	CAS-No.: 108-95-2	(1 ≤ C < 3) Skin Irrit. 2; H315 (1 ≤ C < 3) Eye Irrit. 2; H319 (3 ≤ C ≤ 100) Skin Corr. 1B; H314
Formaldehyde	CAS-No.: 50-00-0	(5 ≤ C < 25) Eye Irrit. 2; H319 (5 ≤ C < 25) Skin Irrit. 2; H315 (5 ≤ C ≤ 100) STOT SE 3; H335 (25 ≤ C ≤ 100) Skin Corr. 1B; H314

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	: Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. In the event of symptoms refer for medical treatment.
First-aid measures after skin contact	: Wash with water and soap as a precaution. If symptoms persist, call a physician.
First-aid measures after eye contact	: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse out mouth thoroughly with water. Drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician immediately. Do not induce vomiting without medical advice.
First-aid measures general	: Remove immediately contaminated clothing. Symptoms of poisoning may not appear for several hours. Keep under medical supervision for at least 48 hours.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: Toxic if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed.
Chronic symptoms	: Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.
Potential Adverse human health effects and symptoms	: Watch out. Beware, hazard of foam aspiration.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treatment	: Treat symptomatically.
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SECTION 5 Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Alcohol resistant foam. Dry powder. Carbon dioxide. Water spray.
Unsuitable extinguishing media : high volume water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Could burn but do not ignite readily.
Explosion hazard : Product is not explosive. Explosive vapor/air mixtures may be formed.
Hazardous decomposition products in case of fire : Carbon oxides (CO, CO₂).

5.3. Special protective actions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location.
Protection during firefighting : In case of fire, wear suitable respiratory equipment with positive air supply. Protective suit.
Precautionary measures fire : Cool endangered containers with water spray jet.
Other information : Do not allow run-off from fire fighting to enter drains or water courses. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure adequate air ventilation. Use personal protective clothing. In case of vapor formation use adequate respirator. Evacuate personnel to a safe area.
Environmental precautions : Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Clean contaminated surface thoroughly.

6.2. Methods and materials for containment and cleaning up

For containment : Dike and contain spill.
Methods for cleaning up : Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Shovel or sweep up and put in a closed container for disposal.
Refer to protective measures listed in Sections 7 and 8. For further information refer to section 13.

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep the container tightly closed. Do not breathe vapors. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. vapors may form explosive mixture with air.
Hygiene measures : Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday. Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight.
Incompatible materials : oxidizing materials.
Information on mixed storage : Keep away from food, drink and animal feeding stuffs.
Specific end uses : See Section 1.

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SECTION 8 Exposure controls/personal protection

8.1. Control parameters

furfuryl alcohol (98-00-0)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Furfuryl alcohol
OEL TWA	40 mg/m ³
	10 ppm
OEL STEL	60 mg/m ³
	15 ppm
Notations and remarks	Substance may be readily absorbed through intact skin, occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 191/2021
Canada (Quebec) - Occupational Exposure Limits	
Local name	Furfuryl alcohol # Alcool furfurylique
VEMP (OEL TWAEV)	0.2 ppm
Notations and remarks	Pc, C3
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety # S-2.1, r. 13 - Règlement sur la santé et la sécurité du travail
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Furfuryl alcohol
OEL TWA	5 ppm
OEL STEL	10 ppm
Notations and remarks	IARC group 2B carcinogen; Skin (the substance that contribute significantly to the overall exposure by the skin route)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Furfuryl alcohol
OEL TWA	0.8 mg/m ³
	0.2 ppm
Notations and remarks	TLV® Basis: URT & eye irr. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Furfuryl alcohol
OEL TWA	10 ppm
OEL STEL	15 ppm
Notations and remarks	URT & eye irr

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furfuryl alcohol (98-00-0)	
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Furfuryl alcohol
OEL TWA	0.8 mg/m ³
	0.2 ppm
Notations and remarks	TLV® Basis: URT & eye irr. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Furfuryl alcohol
OEL TWA	0.8 mg/m ³
	0.2 ppm
Notations and remarks	TLV® Basis: URT & eye irr. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Furfuryl alcohol
OEL TWA	10 ppm
OEL STEL	15 ppm
Notations and remarks	Skin
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Furfuryl alcohol
OEL TWA	10 ppm
OEL STEL	15 ppm
Notations and remarks	Skin
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Furfuryl alcohol
OEL TWAEV	10 ppm
	15 ppm
Notations and remarks	Skin
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Furfuryl alcohol
OEL TWA	0.8 mg/m ³
	0.2 ppm

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furfuryl alcohol (98-00-0)	
Notations and remarks	TLV® Basis: URT & eye irr. Notations: Skin; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Furfuryl alcohol
OEL TWA	10 ppm
OEL STEL	15 ppm
Notations and remarks	Skin
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Formaldehyde (50-00-0)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Formaldehyde
OEL TWA	0.9 mg/m ³
	0.75 ppm
OEL C	1.3 mg/m ³
	1 ppm
Notations and remarks	Carcinogenicity A2
Regulatory reference	Alberta Regulation 191/2021
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Formaldehyde
OEL TWA	0.1 ppm
OEL STEL	0.3 ppm
Notations and remarks	ACGIH Carcinogenicity category A1, IARC group 1 carcinogen; S(D) (substance with specific evidence of sensitization by dermal route); S(R) (substance with specific evidence of sensitization by respiratory route)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Formaldehyde
OEL TWA	0.12 mg/m ³
	0.1 ppm
OEL STEL	0.37 mg/m ³
	0.3 ppm
Notations and remarks	TLV® Basis: URT & eye irr; URT cancer. Notations: DSEN; RSEN; A1 (Confirmed Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (New Brunswick) - Occupational Exposure Limits	
Local name	Formaldehyde

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Formaldehyde (50-00-0)	
OEL C	0.3 ppm
Notations and remarks	URT & eye irr; SEN; A2
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Formaldehyde
OEL TWA	0.12 mg/m ³
	0.1 ppm
OEL STEL	0.37 mg/m ³
	0.3 ppm
Notations and remarks	TLV® Basis: URT & eye irr; URT cancer. Notations: DSEN; RSEN; A1 (Confirmed Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Formaldehyde
OEL TWA	0.12 mg/m ³
	0.1 ppm
OEL STEL	0.37 mg/m ³
	0.3 ppm
Notations and remarks	TLV® Basis: URT & eye irr; URT cancer. Notations: DSEN; RSEN; A1 (Confirmed Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Formaldehyde
OEL C	0.3 ppm
Notations and remarks	SEN, Designated substance
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Formaldehyde
OEL C	0.3 ppm
Notations and remarks	SEN, Designated substance
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Formaldehyde
OEL TWAEV	1 ppm
OEL C	1.5 ppm
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Ontario table of occupational exposure limits

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Formaldehyde (50-00-0)	
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Formaldehyde
OEL TWA	0.12 mg/m ³
	0.1 ppm
OEL STEL	0.37 mg/m ³
	0.3 ppm
Notations and remarks	TLV® Basis: URT & eye irr; URT cancer. Notations: DSEN; RSEN; A1 (Confirmed Human Carcinogen)
Regulatory reference	ACGIH 2025
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Formaldehyde
OEL C	0.3 ppm
Notations and remarks	SEN, Designated Chemical Substance
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10
Phenol (108-95-2)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Phenol
OEL TWA	19 mg/m ³
	5 ppm
Notations and remarks	Substance may be readily absorbed through intact skin.
Regulatory reference	Alberta Regulation 191/2021
Canada (British Columbia) - Occupational Exposure Limits	
Local name	Phenol
OEL TWA	5 ppm
Notations and remarks	Skin (the substance that contribute significantly to the overall exposure by the skin route)
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
Canada (Manitoba) - Occupational Exposure Limits	
Local name	Phenol
OEL TWA	19 mg/m ³
	5 ppm
Notations and remarks	TLV® Basis: URT irr; lung dam; CNS impair. Notations: Skin; A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
Canada (Newfoundland and Labrador) - Occupational Exposure Limits	
Local name	Phenol
OEL TWA	19 mg/m ³

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Phenol (108-95-2)	
	5 ppm
Notations and remarks	TLV® Basis: URT irr; lung dam; CNS impair. Notations: Skin; A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
Canada (Nova Scotia) - Occupational Exposure Limits	
Local name	Phenol
OEL TWA	19 mg/m ³ 5 ppm
Notations and remarks	TLV® Basis: URT irr; lung dam; CNS impair. Notations: Skin; A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025
Canada (Nunavut) - Occupational Exposure Limits	
Local name	Phenol
OEL TWA	5 ppm
OEL STEL	7.5 ppm
Notations and remarks	Skin
Regulatory reference	Occupational Health and Safety Regulations, Nu Reg 003-2016 (Amendment R-044-2021)
Canada (Northwest Territories) - Occupational Exposure Limits	
Local name	Phenol
OEL TWA	5 ppm
OEL STEL	7.5 ppm
Notations and remarks	Skin
Regulatory reference	Occupation Health and Safety Regulations R-039-2015 (R-090-2024)
Canada (Ontario) - Occupational Exposure Limits	
Local name	Phenol
OEL TWAEV	5 ppm
Notations and remarks	Skin
Regulatory reference	Occupational Health and Safety Act, R.S.O. 1990, c. O.1 - R.R.O. 1990, Reg. 833: Control of exposure to biological or chemical agents
Canada (Prince Edward Island) - Occupational Exposure Limits	
Local name	Phenol
OEL TWA	19 mg/m ³ 5 ppm
Notations and remarks	TLV® Basis: URT irr; lung dam; CNS impair. Notations: Skin; A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2025

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Phenol (108-95-2)	
Canada (Saskatchewan) - Occupational Exposure Limits	
Local name	Phenol
OEL TWA	5 ppm
OEL STEL	7.5 ppm
Notations and remarks	Skin
Regulatory reference	The Occupational Health and Safety Regulations, 2020. Chapter S-15.1 Reg 10

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection:

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves. Pls. find examples in the protective gloves database under: <http://bestglove.com/site/chemrest/>

Type	Material	Permeation	Thickness (mm)	Penetration
Chemically resistant protective gloves	butyl rubber	6 (> 480 minutes)	≥ 0.7	
Chemically resistant protective gloves	Nitrile rubber (NBR)	2 (> 30 minutes)	≥ 0.4	

Eye protection:

Eyewash bottle with clean water (EN 15154)

Type	Field of application	Characteristics
Protective goggles (EN 166)	Liquid splashes may occur	

Skin and body protection:

Type
Long sleeved protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition
Respiratory protective device with a gas filter	Type A - High-boiling (>65 °C) organic compounds	In case of inadequate ventilation wear

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SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Brown
Odor	: characteristic
Odor threshold	: No data available.
pH	: No data available.
Relative evaporation rate (butyl acetate=1)	: No data available.
Relative evaporation rate (ether=1)	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: 100 – 200 °C
Flash point	: 80 °C DIN EN ISO 2719
Auto-ignition temperature	: 390 °C Solvent
Decomposition temperature	: No data available.
Flammability (solid, gas)	: No data available.
Vapor pressure	: ≈ 0.53 hPa @ 20°C , Solvent
Relative vapor density at 20°C	: No data available.
Relative density	: No data available.
Density	: 1.1 g/cm ³ @20°C
Solubility	: Water: Not miscible
Log Pow	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: 400 – 800 mPa·s @ 23°C
Explosive properties	: Product is not explosive. May form flammable/explosive vapor-air mixture.
Oxidizing properties	: Not oxidising.
Explosion limits	: Lower explosive limit (LEL): 1.8 Vol-% Upper explosive limit (UEL): 16.3 Vol-%
Particle characteristics	: No data available.

9.2. Data relevant with regard to physical hazard classes (supplemental)

VOC content	: 0 %
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SECTION 10 Stability and reactivity

Reactivity	: No decomposition if stored normally.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: oxidizing materials.
Conditions to avoid	: Keep out of direct sunlight. To avoid thermal decomposition, do not overheat. vapor/air mixtures are explosive.
Incompatible materials	: Oxidizing agent.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced. On thermal decomposition (pyrolysis), releases : Carbon oxides (CO, CO ₂).
Hardening time:	: No additional information available.

SECTION 11 Toxicological information

11.1. Likely routes of exposure

Acute toxicity (oral)	: Toxic if swallowed.
Acute toxicity (dermal)	: Harmful in contact with skin.
Acute toxicity (inhalation)	: Toxic if inhaled.

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Asplit® VP 788 Solution	
ATE CA (oral)	222.222 mg/kg body weight
ATE CA (Dermal)	1100 mg/kg body weight
ATE CA (Gases)	700 ppmV/4h
ATE CA (vapors)	3 mg/l/4h
ATE CA (dust,mist)	0.5 mg/l/4h

furfuryl alcohol (98-00-0)	
ATE CA (oral)	100 mg/kg body weight
ATE CA (Dermal)	300 mg/kg body weight
ATE CA (dust,mist)	0.5 mg/l/4h

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)	
LD50 dermal rabbit	> 2000 mg/kg body weight rat, EPA OPPTS 870.1200
LC50 Inhalation - Rat	1.49 – 2.44 mg/l air rat, EPA OPPTS 870.1300, (OECD 403 method)

Formaldehyde (50-00-0)	
ATE CA (oral)	100 mg/kg body weight
ATE CA (Dermal)	300 mg/kg body weight
ATE CA (Gases)	700 ppmV/4h
ATE CA (vapors)	3 mg/l/4h
ATE CA (dust,mist)	0.5 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.
Respiratory or skin sensitization : May cause an allergic skin reaction.
Germ cell mutagenicity : No data available. (Based on available data, the classification criteria are not met)
Carcinogenicity : Suspected of causing cancer.

furfuryl alcohol (98-00-0)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity	: No data available. (Based on available data, the classification criteria are not met)
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)	
NOAEL (oral,rat,90 days)	≥ 500 mg/kg body weight rat, (OECD 422 method)
NOAEL (dermal,rat/rabbit,90 days)	≥ 1545 mg/kg body weight rat

Aspiration hazard : No data available. (Based on available data, the classification criteria are not met)
Potential Adverse human health effects and symptoms : Watch out. Beware, hazard of foam aspiration.
Symptoms/effects after inhalation : Toxic if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : Toxic if swallowed.
Chronic symptoms : Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

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SECTION 12 Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : No data available. (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic) : No data available. (Based on available data, the classification criteria are not met)

N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)	
LC50 fish 1	597 mg/l Brachydanio rerio (zebra-fish)
EC50 Daphnia 1	81 mg/l Daphnia magna (Water flea)
EC50 72h - Algae [1]	126 mg/l Desmodesmus subspicatus
EC50 72h - Algae [2]	352 mg/l Desmodesmus subspicatus
Formaldehyde (50-00-0)	
ErC50 algae	4.89 mg/l
Phenol (108-95-2)	
EC50 Daphnia 1	3.1 mg/l Ceriodaphnia dubia
EC50 72h - Algae [1]	180 mg/l Dunaliella tertiolecta
EC50 72h - Algae [2]	217.6 mg/l Dunaliella tertiolecta
NOEC chronic fish	0.077 mg/l ('60 d)
NOEC (chronic)	0.16 mg/l Daphnia magna (Water flea), 16 d

12.2. Persistence and degradability

Asplit® VP 788 Solution	
Persistence and degradability	No data available.

12.3. Bioaccumulative potential

Asplit® VP 788 Solution	
Bioaccumulative potential	No data available.

12.4. Mobility in soil

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Ecology - soil	No data available.

12.5. Other adverse effects

Ozone : No data available. (Based on available data, the classification criteria are not met)

Other information : Do not flush into surface water or sewer system.

Fluorinated greenhouse gases : No

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according to SOR/2015-17, Hazardous Products Regulations (HPR), as amended by SOR/2022-272
SDS No: 00359-1151

SECTION 13 Disposal considerations

- Waste treatment methods : Must follow special treatment according to local regulation. Where possible recycling is preferred to disposal.
- Product/Packaging disposal recommendations : Contaminated packagings are to be treated like the product itself. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

SECTION 14 Transport information

In accordance with TDG / DOT / IMDG / IATA

TDG	DOT	IMDG	IATA
14.1. UN Number			
UN2810	UN2810	2810	2810
14.2. UN Proper Shipping Name			
TOXIC LIQUID, ORGANIC, N.O.S. Furfuryl alcohol	Toxic, liquids, organic, n.o.s. (Furfuryl alcohol)	TOXIC LIQUID, ORGANIC, N.O.S. Furfuryl alcohol	Toxic liquid, organic, n.o.s. Furfuryl alcohol
14.3. Transport hazard class(es)			
6.1	6.1	6.1	6.1
			
14.4. Packing group, if applicable			
III	III	III	III
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

14.6. Special precautions for user

TDG

UN-No. (TDG) : UN2810

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TDG Special Provisions	: 16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the danger or dangers posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.
Explosive Limit and Limited Quantity Index	: 5 L
Excepted quantities (TDG)	: E1
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 60 L
Emergency Response Guide (ERG) Number	: 153

DOT

UN-No. (DOT)	: UN2810
DOT Special Provisions (49 CFR 172.102)	: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow "clear of living quarters"

IMDG

Special provision (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03

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Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-A - SPILLAGE SCHEDULE Alfa - TOXIC SUBSTANCES
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2

IATA

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y642
PCA limited quantity max net quantity (IATA)	: 2L
PCA packing instructions (IATA)	: 655
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 663
CAO max net quantity (IATA)	: 220L
Special provision (IATA)	: A3, A4, A137
ERG code (IATA)	: 6L

14.7. Transport in bulk according to Annex II of MARPOL 73/78⁹ and the IBC Code¹⁰

Not applicable.

SECTION 15 Regulatory information

furfuryl alcohol (98-00-0)

Listed on the Canadian DSL (Domestic Substances List)

SECTION 16 Other Information

Issue date	: 02-28-2013
Revision date	: 04-29-2026
Supersedes	: 04-22-2022

Other information : Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

Full text of hazard classes and H-statements:

H227	Combustible liquid
H301	Toxic if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction.

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Full text of hazard classes and H-statements:	
H319	Causes serious eye irritation.
H331	Toxic if inhaled
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure

Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
DOT	Department of Transport
TDG	Transportation of Dangerous Goods
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
GHS	Globally Harmonized System of Classification, Labelling and Packaging of Chemicals
IARC	International Agency for Research on Cancer
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
CAS	CAS (Chemical Abstracts Service) number
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
BCF	Bioconcentration factor
MARPOL 73/78	MARPOL 73/78: International Convention for the Prevention of Pollution From Ships
ADG	Transport of Australian Dangerous Goods

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.