Safety Data Sheet

according to 29 CFR 1910.1200(g)

Asplit® CN Solution

1. Identification

Product identifier

Asplit® CN Solution

Art.-No.

592 0020, 592 0021, 592 0022, 592 0023

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Mortar

Details of the supplier of the safety data sheet

Company name:	REMA TIP TOP / North America Inc.
Street:	1500 Industrial Blvd
Place:	Madison, GA 30650, USA
Telephone:	+1 800 225 7362,
Internet:	www.rematiptop.com
Responsible Department:	Responsible for the safety data sheet: sds@gbk-ingelheim.de

Emergency phone number: (USA domestic) 1 800 535 5053 or international (001) 352 323 3500
Infotrac/GBK GmbH-ID: 93591

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Flammable liquids: Flam. Liq. 4
Carcinogenicity: Carc. 1B
Carcinogenicity: Carc. 2
Germ cell mutagenicity: Muta. 2
Acute toxicity: Acute Tox. 3 (inhalation)
Acute toxicity: Acute Tox. 4 (dermal)
Acute toxicity: Acute Tox. 4 (oral)
Skin corrosion/irritation: Skin Corr. 1B
Serious eye damage/eye irritation: Eye Dam. 1
Respiratory or skin sensitization: Skin Sens. 1
Specific target organ toxicity single exposure: STOT SE 3 (respiratory tract irritation)
Specific target organ toxicity repeated or prolonged exposure: STOT RE 2

Label elements

29 CFR Part 1910.1200

Signal word: Danger

Pictograms:

Hazard statements

Combustible liquid
Harmful if swallowed or in contact with skin
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Toxic if inhaled
May cause respiratory irritation
Suspected of causing genetic defects

May cause cancer
May cause damage to organs through prolonged or repeated exposure
Harmful to aquatic life with long lasting effects

Precautionary statements

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe vapour.
Wear protective gloves/protective clothing/eye protection/face protection.
If exposed or concerned: Get medical advice/attention.
Store locked up.
Avoid release to the environment.

Hazards not otherwise classified

According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.
Vapours may form explosive mixture with air.

3. Composition/information on ingredients

Mixtures

Chemical characterization

Mixture containing substances listed in section 3 with additives

Hazardous components

CAS No	Components	Quantity
98-01-1	2-Furaldehyde	25 %
108-95-2	Phenol	6 %
50-00-0	Formaldehyde	0.9 %

4. First-aid measures

Description of first aid measures

General information

Remove contaminated soaked clothing immediately.
In the event of persistent symptoms receive medical treatment.
Take away from danger area and lay down affected person.

After inhalation

Move to fresh air in case of accidental inhalation of vapours.
Seek medical treatment immediately.

After contact with skin

Wash off immediately with soap and plenty of water.
Consult a doctor if skin irritation persists.

After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Consult (eye) doctor immediately.

After ingestion

Do not induce vomiting.
Summon a doctor immediately.
Rinse out mouth and give plenty of water to drink.
Never give anything by mouth to an unconscious person.
Induce vomiting only upon the advice of a physician.

Most important symptoms and effects, both acute and delayed

May cause cancer.

Suspected of causing genetic defects.
Toxic if inhaled.
Harmful if swallowed or in contact with skin.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause damage to organs through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed

Treat symptoms.
Attention. Phenols in high amounts cause local anesthetic effects so that pain due to burns may be delayed .

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, dry chemical, carbon dioxide (CO2), water-spray.

Unsuitable extinguishing media

Full water jet.

Specific hazards arising from the chemical

Fire may produce:
carbon monoxide and carbon dioxide
Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus and protective suit.

Additional information

Vapours are heavier than air and spread along ground .
The vapour/air mixture is explosive, even in empty, uncleaned receptacles.
Cool containers at risk with water spray jet.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Ensure adequate ventilation.
Remove persons to safety.
Keep away sources of ignition.

For emergency responders

In case of vapour formation use respirator.
Use personal protective clothing.

Environmental precautions

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

Methods and material for containment and cleaning up

For containment

Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
Shovel into suitable container for disposal.

Reference to other sections

Observe protective instructions (see Sections 7 and 8).

Information for disposal look up chapter 13.

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Keep container tightly closed.
Vapours are heavier than air and spread along ground.
Use only in thoroughly ventilated areas.
Provide suitable extraction at the processing machines.

Advice on protection against fire and explosion

Keep away from heat and sources of ignition.
Take measures against electrostatic charging.

Advice on general occupational hygiene

Do not inhale vapours.
Wash hands before breaks and immediately after handling the product.
When using do not eat, drink or smoke.
Treat subsequently with skin cream.
Remove and wash contaminated clothes before re-use.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a dry, cool and well-ventilated place.

Hints on joint storage

Incompatible with acids.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m³	f/cc	Category	Origin
50-00-0	Formaldehyde	0.75	-		TWA (8 h)	PEL
		2	-		STEL (15 min)	PEL
50-00-0	Formaldehyde	0.016	-		TWA (8 h)	REL
		C 0.1	-		15 min	REL
50-00-0	Formaldehyde	0.1	0.12		TWA (8 h)	ACGIH-2024
		0.3	0.37		STEL (15 min)	ACGIH-2024
98-01-1	Furfural	5	20		TWA (8 h)	PEL
		0.2	0.8		TWA (8 h)	ACGIH-2024
108-95-2	Phenol	5	19		TWA (8 h)	PEL
		5	19		TWA (8 h)	REL
		C 15.6	C 60		15 min	REL
108-95-2	Phenol	5	19		TWA (8 h)	ACGIH-2024

Biological Exposure Indices (BEI-ACGIH)

CAS No	Substance	Determinant	Value	Test material	Sampling time
98-01-1	Furfural	Furoic acid (with hydrolysis)	200 mg/L	urine	End of shift
108-95-2	PHENOL	Phenol (with hydrolysis, creatinine)	250 mg/g	urine	End of shift

Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.
Pay attention to explosion protection guidelines.

Individual protection measures, such as personal protective equipment

Eye/face protection

Tightly fitting goggles.
Eye wash bottle with pure water.

Hand protection

Protective gloves resistant to chemicals made of butyl, Minimum coat thickness 0.7 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Butoject 898> made by www.kcl.de.
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.

Skin protection

Long sleeved clothing.
Solvent-resistant apron.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A).

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Color:	Dark brown
Odor:	Like phenoles

		Test method
Changes in the physical state		
Melting point/freezing point:	n.d.	
Boiling point or initial boiling point and boiling range:	100 - 200 °C	
Sublimation point:	n.a.	
Softening point:	n.d.	
Flash point:	78 °C	DIN EN ISO 2719
Flammability		
Solid/liquid:	n.a.	

Explosive properties

The product is considered non-explosive; nevertheless explosive vapour/air mixture can be generated.

Lower explosion limits:	2,1 vol. %	(*)
Upper explosion limits:	19,3 vol. %	(*)
Auto-ignition temperature:	315 °C	(*)

Self-ignition temperature

Solid:	n.a.
Gas:	n.a.

Decomposition temperature:	> 110 °C	
pH-Value:	7 - 8	
Viscosity / dynamic: (at 23 °C)	125 - 165 mPa·s	ISO 3219
Viscosity / kinematic:	n.d.	
Flow time:	n.d.	
Water solubility: (at 20 °C)	Partly soluble	

Solubility in other solvents

n.d.

Partition coefficient n-octanol/water:	n.d.	
Vapor pressure:	~ 1,4 hPa	OECD 104
Vapor pressure:		ASTM D 2879
Density:	1,221 g/cm³	
Bulk density:	n.a.	
Relative vapour density:	n.d.	

Other information

Information with regard to physical hazard classes

Oxidizing properties

Not oxidising.

Other safety characteristics

Solvent separation test:	n.d.
Solvent content:	n.d.
Evaporation rate:	n.d.

Further Information

(*) Solvent

10. Stability and reactivity

Reactivity

No decomposition if stored and applied as directed.

Chemical stability

Stability: Stable

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions: Will not occur

Reactions with strong acids.

Conditions to avoid

To avoid thermal decomposition, do not overheat.
Vapour/air mixtures are explosive at intensive warming.
Heating can release vapours which can be ignited.
Avoid temperatures above 25°C .

Incompatible materials

Strong acids

Hazardous decomposition products

No hazardous decomposition products known.
Fire may produce:
Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).
Carbon monoxide and carbon dioxide

11. Toxicological information

Information on toxicological effects

Acute toxicity

Toxic if inhaled
Harmful in contact with skin
Harmful if swallowed
No toxicological data available.

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage
Serious eye damage/eye irritation: Causes serious eye damage

Sensitizing effects

May cause an allergic skin reaction (Formaldehyde)

Carcinogenic/mutagenic/toxic effects for reproduction

May cause cancer (Formaldehyde)
Suspected of causing cancer
Suspected of causing genetic defects (Phenol; Formaldehyde)
Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

May cause respiratory irritation

Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure (Phenol)

Carcinogenicity (OSHA):	Formaldehyde (CAS 50-00-0) is listed.
Carcinogenicity (IARC):	Furfural (CAS 98-01-1) is listed in group 3. Phenol (CAS 108-95-2) is listed in group 3. Formaldehyde (CAS 50-00-0) is listed in group 1.
Carcinogenicity (NTP):	Formaldehyde (CAS 50-00-0) is listed in group Known.

Aspiration hazard

Based on available data, the classification criteria are not met.

Additional information on tests

This product is classified in accordance with the GHS regulations.

Information on other hazards

Endocrine disrupting properties

No data available

12. Ecological information

Ecotoxicity

Ecological data are not available.
Harmful to aquatic life with long lasting effects.

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Other adverse effects

Hazardous water pollutant.

Further information

Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Can be incinerated, when in compliance with local regulations.
Where possible recycling is preferred to disposal.

Contaminated packaging

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.

14. Transport information

U.S. DOT 49 CFR 172.101

UN number or ID number:	UN 2927
Proper shipping name:	TOXIC LIQUIDS, CORROSIVE, ORGANIC, N.O.S. (2-Furaldehyde, Phenol)
Transport hazard class(es):	6.1
Packing group:	II
Hazard label:	6.1, 8

Marine transport (IMDG)

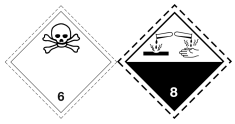
UN number or ID number:	UN 2927
UN proper shipping name:	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (2-Furaldehyde, phenol)
Transport hazard class(es):	6.1
Packing group:	II
Hazard label:	6.1+8

Marine pollutant:	Yes
Special Provisions:	274
Limited quantity:	100 mL / 30 kg
Excepted quantity:	E4
EmS:	F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

UN number or ID number:	UN 2927
UN proper shipping name:	TOXIC LIQUID, CORROSIVE, ORGANIC, N.O.S. (2-Furaldehyde, phenol, solution)
Transport hazard class(es):	6.1
Packing group:	II

Hazard label:	6.1+8



Special Provisions:	A4 A137
Limited quantity Passenger:	0.5 L
Passenger LQ:	Y640
Excepted quantity:	E4
IATA-packing instructions - Passenger:	653
IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	660
IATA-max. quantity - Cargo:	30 L

Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

Special precautions for user

Handle in accordance with good industrial hygiene and safety practice.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The transport takes place only in approved and appropriate packaging.

Other applicable information

15. Regulatory information

U.S. Regulations

National Inventory TSCA

All of the components are listed on the TSCA inventory.

National regulatory information

SARA Section 302 Extremely hazardous substances:
Phenol (108-95-2): Reportable quantity = 1,000 lbs., Threshold planning quantity = 500/10,000 lbs.
Formaldehyde (50-00-0): Reportable quantity = 100 lbs., Threshold planning quantity = 500 lbs.

SARA Section 304 CERCLA:
Furfural (98-01-1): Reportable quantity = 5,000 (2270) lbs. (kg)
Phenol (108-95-2): Reportable quantity = 1,000 (454) lbs. (kg)
Formaldehyde (50-00-0): Reportable quantity = 100 (45.4) lbs. (kg)

SARA Section 311/312 Hazards:
Furfural (98-01-1): Fire hazard, Immediate (acute) health hazard
Phenol (108-95-2): Immediate (acute) health hazard, Delayed (chronic) health hazard
Formaldehyde (50-00-0): Delayed (chronic) health hazard, Immediate (acute) health hazard

SARA Section 313 Toxic release inventory:
Phenol (108-95-2): De minimis limit = 1.0 %, Reportable threshold = Standard
Formaldehyde (50-00-0): De minimis limit = 0.1 %, Reportable threshold = Standard

Clean Air Act Section 112(r):
Formaldehyde (50-00-0): Threshold quantities = 15,000 lbs.

Clean Air Act Section 112(b):
Phenol (108-95-2), Formaldehyde (50-00-0)

State Regulations

Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California)

WARNING: This product can expose you to chemicals including Formaldehyde (gas) (cancer), which are known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Consider Chemical prohibition regulation.

16. Other information

Changes

Revision date: 25.07.2025

Revision No: 1,7

This data sheet contains changes from the previous version in section(s): 2,4,6,9,10,11,14,15.

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk

GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
DIN = Deutsche Industrie Norm
PBT = Persistent Bioaccumulative and Toxic
vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Other data

The information in this document is based on the present state of knowledge and is applicable to the product with regard to appropriate safety precautions.
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.
(n.a. = not applicable; n.d. = not determined)

(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)