1. Identification

Product identifier

Asplit® HB Solution

Art.-No.

5920220, 5920225, 5920230

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

Use of the substance/mixture

bonding material

Details of the supplier of the safety data sheet

Manufacturer

Company name:	TIP TOP Oberflaechenschutz Elbe GmbH
Street:	Heuweg 4
Place:	D-06886 Wittenberg
Telephone:	+49(0)3491/635-50 Telefax:
Responsible Department:	Responsible for the safety data sheet: sds@gbk-ingelheim.de

Supplier

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

Emergency telephone number: INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)
(001) 352 323 3500 Infotrac/GBK GmbH-ID: 93591a

2. Hazard identification

Classification of the substance or mixture

WHMIS 2015

Skin corrosion/irritation: Skin Irrit. 2
Serious eye damage/eye irritation: Eye Irrit. 2

Label elements

WHMIS 2015

Signal word: Warning

Pictograms:

Hazard statements

Causes skin irritation.
Causes serious eye irritation.

Precautionary statements

Do not get in eyes, on skin, or on clothing.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor if you feel unwell.

Other hazards

High risk of slipping due to leakage/spillage of product.

3. Composition/information on ingredients

Mixtures

Chemical characterization

Mixture containing following substances with additives :

Hazardous components

CAS No	Chemical name	Quantity
1312-76-1	Potassium silicate	30 - < 60% (*)

(*) The actual concentration is withheld as a trade secret.

4. First-aid measures

Description of first aid measures

General information

Remove contaminated soaked clothing immediately.
Call a physician immediately.

After inhalation

Move to fresh air in case of accidental inhalation of vapours.
In the event of symptoms refer for medical treatment.

After contact with skin

In case of contact with skin wash off immediately with 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.
Rinse out mouth and give plenty of water to drink.
Never give anything by mouth to an unconscious person.
Summon a doctor immediately.
Induce vomiting only upon the advice of a physician.

Most important symptoms and effects, whether acute or delayed

Causes skin irritation.
Causes serious eye irritation.

Indication of immediate medical attention and special treatment needed

Treat symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Product does not burn, fire-extinguishing activities according to surrounding.

Unsuitable extinguishing media

Full water jet.

Specific hazards arising from the hazardous product

Not known.

Special protective equipment and precautions for fire-fighters

In case of fire, wear suitable respiratory equipment with positive air supply.
Protective suit.

Additional information

Cool containers at risk with water spray jet.
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

High risk of slipping due to leakage/spillage of product.
Keep away noninvolved persons.

For non-emergency personnel

Avoid contact with skin, eyes and clothing.

For emergency responders

Use personal protective clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
Clean contaminated surface thoroughly.

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.
Do not use metal containers.

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.
Avoid contact with skin, eyes and clothing.

Advice on protection against fire and explosion

No special protective measures against fire required.

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.
Keep from freezing.
Do not use aluminium or light metal containers for warehousing.
Recommended storage temperature: 0 - 40°C

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

Additional advice on limit values

This product does not contain any substances for which a Workplace Exposure Limit has been set in concentrations above the limits.

Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Protective and hygiene measures

Wash hands before breaks and immediately after handling the product.
When using do not eat, drink or smoke.
Remove and wash contaminated clothes before re-use.
Avoid contact with eyes, skin or mucous membrane.

Eye/face protection

Tightly fitting goggles.
Eye wash bottle with pure water.

Hand protection

Protective gloves resistant to chemicals made off natural-rubber latex, Minimum coat thickness 0.6 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Lapren 706> 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.
Pls. find examples in the GISBAU protective gloves database under:
http://www.wingisonline.de/handschuhe/frmMain.aspx

Skin protection

Long sleeved clothing.

Respiratory protection

No personal respiratory protective equipment normally required.
Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, Filter B

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	Colourless, clear
Odour:	Odourless

		Test method
pH-Value (at 20 °C):	approx. 12,1	DIN EN 1262

Changes in the physical state

Melting point/freezing point:	approx. 0 °C
Boiling point or initial boiling point and boiling range:	101 °C
Sublimation point:	n.a.
Softening point:	n. d.
Flash point:	n.a.
Sustaining combustion:	Not sustaining combustion

Flammability

Solid/liquid:	n.a.

Explosive properties

The product is not explosive.

Lower explosive limits:	n.a.	
Upper explosive limits:	n.a.	
Auto-ignition temperature:	n.a.	
Self-ignition temperature		
Solid:	n.a.	
Gas:	n.a.	
Decomposition temperature:	> 2000 °C	
Oxidizing properties		
Not oxidising.		
Vapour pressure: (at 20 °C)	approx. 23,4 hPa	
Density (at 15 °C):	1,418 g/cm³	DIN 51757
Bulk density:	n.a.	
Water solubility: (at 20 °C)	Completely miscible	
Partition coefficient n-octanol/water:	n.a.	
Viscosity / dynamic: (at 20 °C)	50 mPa·s	DIN EN 12092
Viscosity / kinematic:	n. d.	
Flow time:	n. d.	
Relative vapour density:	n.a.	
Evaporation rate:	n.a.	
Solvent separation test:	0 %	
Solvent content:	0 %	

Other information

No data available

10. Stability and reactivity

Reactivity

No decomposition if stored and applied as directed.
Not corrosive to steel.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Exothermic reaction with strong acids.

Conditions to avoid

To avoid thermal decomposition, do not overheat.
Corrodes base metals.

Incompatible materials

Acids.

Hazardous decomposition products

No hazardous decomposition products known.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.
No toxicological data available.
LD50/oral/rat: > 2000 mg/kg
LD50/dermal/rat: > 5000 mg/kg

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

Irritation and corrosivity

Causes skin irritation.
Causes serious eye irritation.
Skin irritation (rabbit): Irritant [OECD 404]
Eye irritation (rabbit): Irritant [OECD 405]

Sensitizing effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Additional information on tests

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

Information on other hazards

Endocrine disrupting properties

No data available

12. Ecological information

Ecotoxicity

LC50/Fish/48 h > 100 mg/l
NOEC/Fish > 1 mg/l
EC50/Waterplants > 100 mg/l
EC50/Activated sludge > 100 mg/l

Persistence and degradability

Methods for the determination of biodegradability are not applicable to inorganic substances.

Bioaccumulative potential

There is no indication of bioaccumulation potential.

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

Slightly water hazardous.
A pH-change becomes possible in water. A pH-change becomes possible in water.

Further information

Do not flush into surface water or sanitary sewer system.
The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.
When low concentrations are discharged correctly into adapted biological sewage treatment plants, interference with the degradation activity of activated sludge is not likely.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

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

Contaminated packaging

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.

14. Transport information

Canadian TDG

Proper shipping name:	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

UN number:	No dangerous good in sense of this transport regulation.
United Nations proper shipping name:	No dangerous good in sense of this transport regulation.
Transport hazard class(es):	No dangerous good in sense of this transport regulation.
Packing group:	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

UN number:	No dangerous good in sense of this transport regulation.
United Nations proper shipping name:	No dangerous good in sense of this transport regulation.
Transport hazard class(es):	No dangerous good in sense of this transport regulation.
Packing group:	No dangerous good in sense of this transport regulation.

Environmental hazards

ENVIRONMENTALLY HAZARDOUS:	No

15. Regulatory information

Canadian regulations

16. Other information

Changes

This data sheet contains changes from the previous version in section(s): 2,6,8,9,11.

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

Further Information

Data of sections 4 to 8, as well as 10 to 12, do not necessarily refer to the use and the regular handling of the product (in this sense consult package leaflet and expert information), but to release 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.
(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.)