

**BYK-GO 8780**

Product code: 000000000000152347

Version 1.0 SDS\_APJ\_MY

Revision Date 01.12.2022

Print Date 02.01.2026

**SECTION 1: Identification of the hazardous chemical and of the supplier****Product identifier**

Product name : BYK-GO 8780

Recommended use : Hydrogen sulfide scavenger

**Manufacturer or supplier's details**

Company : BYK USA LLC

Address : South Cherry Street 524  
06492 Wallingford

Telephone : +1 203-265-2086

Telefax :

E-mail address : BRIEF.BYK.NAFTA@altana.com

Emergency telephone number : +60 3 6207 4347 (Malay and English)  
+65 3158 1074 (All languages)

**SECTION 2: Hazards identification****Classification of the hazardous chemical**

Acute toxicity (Oral) : Category 4

Skin corrosion/irritation : Category 1B

Serious eye damage/eye irritation : Category 1

Hazardous to the aquatic environment - chronic hazard : Category 3

**Label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off

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immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

### Other hazards which do not result in classification

None known.

## SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture : Mixture  
Chemical nature : Zinc ammonium carbonate solution

### Components

| Chemical name               | CAS-No.    | Concentration (% w/w) |
|-----------------------------|------------|-----------------------|
| diammonium zinc bicarbonate | 40861-29-8 | >= 25 -< 30           |
| ammonia                     | 1336-21-6  | >= 5 -< 7             |
| zinc hydroxide              | 20427-58-1 | >= 2.5 -< 3           |

## SECTION 4: First aid measures

General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.

If inhaled : If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.  
If on skin, rinse well with water.  
If on clothes, remove clothes.

In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.  
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Continue rinsing eyes during transport to hospital.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.  
Do NOT induce vomiting.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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Most important symptoms  
and effects, both acute and  
delayed : None known.

**SECTION 5: Firefighting measures****Extinguishing media**

Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

Unsuitable extinguishing  
media : High volume water jet

**Physicochemical hazards arising from the chemical**

Specific hazards during  
firefighting : Do not allow run-off from fire fighting to enter drains or water  
courses.

Hazardous combustion  
products : Carbon oxides  
Ammonia  
Nitrogen oxides (NO<sub>x</sub>)

**Special protective equipment and precautions for fire-fighters**

Special protective equipment  
for firefighters : Wear self-contained breathing apparatus for firefighting if  
necessary.

Specific extinguishing  
methods : Collect contaminated fire extinguishing water separately. This  
must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must  
be disposed of in accordance with local regulations.

**SECTION 6: Accidental release measures**

Personal precautions,  
protective equipment and  
emergency procedures : Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

Methods and materials for  
containment and cleaning up : Neutralise with acid.  
Soak up with inert absorbent material (e.g. sand, silica gel,  
acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

**SECTION 7: Handling and storage****Handling****Precautions for safe handling**

Advice on protection against  
fire and explosion : Normal measures for preventive fire protection.

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Advice on safe handling : Do not breathe vapours/dust.  
 Avoid contact with skin and eyes.  
 For personal protection see section 8.  
 Smoking, eating and drinking should be prohibited in the application area.  
 To avoid spills during handling keep bottle on a metal tray.  
 Dispose of rinse water in accordance with local and national regulations.

### Storage

#### Conditions for safe storage, including any incompatibilities

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
 Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

## SECTION 8: Exposure controls and personal protection

### Control parameters

| Components | CAS-No.   | Value type<br>(Form of exposure) | Control parameters /<br>Permissible concentration | Basis |
|------------|-----------|----------------------------------|---|-------|
| ammonia    | 1336-21-6 | TWA                              | 25 ppm<br>(Ammonia)                               | ACGIH |
|            |           | STEL                             | 35 ppm<br>(Ammonia)                               | ACGIH |

### Individual protection measures, such as personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
 Tightly fitting safety goggles  
 Wear face-shield and protective suit for abnormal processing problems.

Skin protection : Impervious clothing  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hand protection

Remarks : Wear suitable gloves.

Hygiene measures : When using do not eat or drink.  
 When using do not smoke.  
 Wash hands before breaks and at the end of workday.

## SECTION 9: Physical and chemical properties

Appearance : liquid

Colour : colourless, clear

Odour : ammoniacal

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|  |   |  |
|--|---|--|
| Odour Threshold                                  | : | No data available                        |
| pH   | : | 10 - 11.5                                |
| Melting point/freezing point                     | : | 0 °C<br>(1,013 hPa)                      |
| Initial boiling point and boiling range          | : | 100 °C<br>(1,013 hPa)                    |
| Flash point                                      | : | Not applicable                           |
| Evaporation rate                                 | : | No data available                        |
| Upper explosion limit / Upper flammability limit | : | No data available                        |
| Lower explosion limit / Lower flammability limit | : | No data available                        |
| Vapour pressure                                  | : | No data available                        |
| Relative vapour density                          | : | No data available                        |
| Relative density                                 | : | No data available                        |
| Density  | : | 1.2 g/cm <sup>3</sup> (20 °C, 1,013 hPa) |
| Solubility(ies)                                  |   |  |
| Water solubility                                 | : | dispersible                              |
| Solubility in other solvents                     | : | No data available                        |
| Partition coefficient: n-octanol/water           | : | No data available                        |
| Auto-ignition temperature                        | : | No data available                        |
| Decomposition temperature                        | : | No data available                        |
| Viscosity  |   |  |
| Viscosity, dynamic                               | : | No data available                        |

**SECTION 10: Stability and reactivity**

|                                    |   |   |
|------------------------------------|---|---|
| Reactivity                         | : | No decomposition if stored and applied as directed.                 |
| Chemical stability                 | : | No decomposition if stored and applied as directed.                 |
| Possibility of hazardous reactions | : | No decomposition if stored and applied as directed.                 |
| Conditions to avoid                | : | No data available   |
| Incompatible materials             | : | Acids<br>Halogenated compounds<br>Metals<br>Strong oxidizing agents |
| Hazardous decomposition            | : | No data available   |

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**SECTION 11: Toxicological information**

Information on likely routes of exposure : None known.

**Acute toxicity****Product:**

Acute oral toxicity : Acute toxicity estimate: 1,842 mg/kg  
Method: Calculation method

**Skin corrosion/irritation****Product:**

Remarks : Extremely corrosive and destructive to tissue.

**Serious eye damage/eye irritation****Product:**

Remarks : May cause irreversible eye damage.

**Respiratory or skin sensitisation****Product:**

Remarks : No data available

**Repeated dose toxicity****Product:**

Remarks : No data available

**Further information****Product:**

Remarks : No data available

**SECTION 12: Ecological information****Ecotoxicity****Product:**

Toxicity to fish :  
Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates :  
Remarks: No data available

**Components:**

ammonia:

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M-Factor (Acute aquatic toxicity) : 1

### zinc hydroxide:

M-Factor (Acute aquatic toxicity) : 1

### Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

### Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### Mobility in soil

No data available

### Other adverse effects

#### Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Harmful to aquatic life with long lasting effects.

## SECTION 13: Disposal information

### Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

Do not re-use empty containers.

## SECTION 14: Transport information

### International Regulations

#### IATA-DGR

UN/ID No. : UN 1760

Proper shipping name : Corrosive liquid, n.o.s.  
(diammonium zinc bicarbonate, Ammonia hydroxide)

Class : 8

Packing group : III

Labels : Corrosive

Packing instruction (cargo aircraft) : 856

Packing instruction : 852

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(passenger aircraft)

**IMDG-Code**

UN number : UN 1760  
Proper shipping name : CORROSIVE LIQUID, N.O.S.  
(diammonium zinc bicarbonate, Ammonia hydroxide)  
Class : 8  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B  
Marine pollutant : no  
Remarks : IMDG Code segregation group 18 - Alkalis

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

Not applicable for product as supplied.

**Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**SECTION 15: Regulatory information****Safety, health, and environmental regulations specific for the hazardous chemical**

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

**SECTION 16: Other information**

Date format : dd.mm.yyyy

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

AllC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -

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International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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