# BYK-ET 3000

Version 2 | Revision Date 05/17/2026 | Print Date 08/06/2026

## SECTION 1. IDENTIFICATION

Product name : BYK-ET 3000

**Manufacturer or supplier's details**

Company : BYK USA LLC
524 South Cherry Street
Wallingford CT 06492

Telephone : (203) 265-2086
Visit our web site : www.byk.com
E-mail address : BRIEF.BYK.NAFTA@altana.com

Emergency telephone number : 203-265-2086; CHEMTREC 1-800-424-9300 / +1 703-527-3887

**Recommended use of the chemical and restrictions on use**

Recommended use : Wetting & Dispersing Additive
Restrictions on use : Refer to Section 15 for any restrictions that may apply

## SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

Flammable liquids : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

Reproductive toxicity : Category 1B

Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H227 Combustible liquid.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H360 May damage fertility or the unborn child.

Precautionary statements : **Prevention:**
P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
**Response:**
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
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/ attention.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
**Storage:**
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
**Disposal:**
P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
Chemical nature : Solution of modified styrene maleic acid copolymer

**Hazardous components**

| Component | CAS-No. | Concentration (%) |
|---|---|---|
| 1-Methyl-2-pyrrolidone | 872-50-4 | >= 60 - < 80 |
| 2-Pyrrolidinone | 616-45-5 | >= 0.1 - < 1 |

| | | |
|---|---|---|
| Pyrrolidinone, dimethyl- | 60544-40-3 | >= 0.1 - < 1 |

The specific chemical identity/weight percent of proprietary ingredient(s) is a trade secret

## SECTION 4. FIRST AID MEASURES

| | | |
|---|---|---|
| General advice | : | Move out of dangerous area.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended. |
| If inhaled | : | If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician. |
| In case of skin contact | : | If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes. |
| In case of eye contact | : | Immediately flush eye(s) with plenty of water.<br>Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist. |
| If swallowed | : | Clean mouth with water and drink afterwards plenty of water.<br>Induce vomiting immediately and call a physician.<br>Keep respiratory tract clear.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |
| Most important symptoms and effects, both acute and delayed | : | No information available. |

## SECTION 5. FIREFIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Carbon dioxide (CO2)<br>Dry chemical |
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during firefighting | : | Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products | : | Carbon oxides<br>Nitrogen oxides (NOx) |
| Further information | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.<br>For safety reasons in case of fire, cans should be stored separately in closed containments. |

Use a water spray to cool fully closed containers.

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

## 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 : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Keep in suitable, closed containers for disposal.

## SECTION 7. HANDLING AND STORAGE

Advice on safe handling : Avoid formation of aerosol.
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.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : No smoking.
Keep container tightly closed in a dry and well-ventilated place.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : Keep away from oxidizing agents.
Keep away from strong bases.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|---|---|---|---|

Hazardous components without workplace control parameters

| | | | | |
|---|---|---|---|---|
| 1-Methyl-2-pyrrolidone | 872-50-4 | TWA | 10 ppm | US WEEL |

**Engineering measures** : Use with local exhaust ventilation.

**Personal protective equipment**

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

Hand protection

Material : Impervious gloves

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

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

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

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

Physical state : liquid

Colour : light yellow

Odour : characteristic

Odour Threshold : No data available

pH : 6, Concentration: 10 % (68 °F (20 °C)) Method: Universal pH-value indicator

Melting point/freezing point : < 32 °F (< 0 °C)
Method: derived

Boiling point/boiling range : > 392 °F (> 200 °C)
Method: derived

Vapour pressure : 0.32 hPa (68 °F (20 °C))
Method: derived

Flash point : 189 °F (87 °C)
Method: 49 (Pensky-Martens)

Upper explosion limit : No data available

Lower explosion limit : No data available

| | | |
|---|---|---|
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | Method: No information available.<br>No data available |
| Relative vapour density | : | No data available |
| Relative Density/Specific Gravity | : | No data available |
| Density | : | 1.0696 g/cm3 (68 °F (20 °C))<br>Method: 4 (20°C oscillating U-tube) |
| Solubility(ies) | | |
| Water solubility | : | (68 °F (20 °C))<br>soluble |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Ignition temperature | : | > 392 °F (> 200 °C)<br>Method: M0062 (Analytics Wesel) |
| Thermal decomposition | : | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | 150 mPa.s (68.0 °F (20.0 °C))<br>Method: P/K 20°C |
| Viscosity, kinematic | : | No data available |
| Surface tension | : | 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.<br>Vapours may form explosive mixture with air. |
| Conditions to avoid | : | Heat, flames and sparks. |
| Incompatible materials | : | Strong oxidizing agents<br>Strong bases |
| Hazardous decomposition | : | No data available |

products

## SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**
Inhalation
Ingestion
Eye contact
Skin contact

**Acute toxicity**

**Product:**

Acute oral toxicity : Acute toxicity estimate : 4,386 mg/kg
Method: Calculation method

**Components:**

**872-50-4 1-Methyl-2-pyrrolidone:**

Acute oral toxicity : LD50 (Rat): 4,150 mg/kg
Method: OECD Test Guideline 401
GLP: no

Acute inhalation toxicity : LC50 (Rat): > 5.1 mg/l
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg
Method: OECD Test Guideline 402
GLP: No information available.

**616-45-5 2-Pyrrolidinone:**

Acute oral toxicity : LD50 (Rat): > 5,000.000000 mg/kg

**Skin corrosion/irritation**

**Product:**

Remarks: May cause skin irritation in susceptible persons.

**Components:**

**872-50-4 1-Methyl-2-pyrrolidone:**
Species: Rabbit
Method: OECD Test Guideline 404
Result: slight irritation
GLP: yes

**616-45-5 2-Pyrrolidinone:**
Species: Rabbit
Assessment: No skin irritation

Method: Draize Test
Result: No skin irritation

**Serious eye damage/eye irritation**

**Product:**

Remarks: Causes serious eye irritation.

**Components:**

**872-50-4 1-Methyl-2-pyrrolidone:**
Species: Rabbit
Result: Severe eye irritation
Method: OECD Test Guideline 405
GLP: no

**616-45-5 2-Pyrrolidinone:**
Species: Rabbit
Result: No eye irritation
Assessment: No eye irritation
Method: Draize Test

**Respiratory or skin sensitisation**

**Product:**

Remarks: No data available

**Components:**

**872-50-4 1-Methyl-2-pyrrolidone:**
Test Type: Mouse Local Lymph Node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse
Method: OECD Test Guideline 429
Result: Not a skin sensitizer.
GLP: yes

**616-45-5 2-Pyrrolidinone:**
Assessment: Did not cause sensitisation on laboratory animals.
Method: No information available.
Result: Did not cause sensitisation on laboratory animals.

**Germ cell mutagenicity**

**Product:**

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

**Components:**

**616-45-5 2-Pyrrolidinone:**
Genotoxicity in vitro : Test Type: Ames test
Result: negative

**Carcinogenicity**

**Product:**
Remarks: No data available

| | |
|---|---|
| **IARC** | No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. |
| **OSHA** | No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. |
| **NTP** | No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. |

**Reproductive toxicity**

**Product:**
Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

**STOT - single exposure**

**Product:**
Remarks: No data available

**STOT - repeated exposure**

**Product:**
Remarks: No data available

**Repeated dose toxicity**

**Product:**
Remarks: Reproductive and developmental studies in rats exposed to NMP showed effects including reduced fertility (male and female and reduced mean offspring body weight at birth and throughout lactation. Risk is significantly reduced when impervious gloves are used. Inhalation of NMP is not likely unless it is heated or sprayed. Prolonged skin contact with NMP may cause dermatitis.

**Aspiration toxicity**

**Product:**

No data available

**Experience with human exposure**

**Product:**

Inhalation:

Symptoms: High concentrations of vapors resulting from the product being heated, misted or sprayed may cause irritation of the respiratory tract and mucous membranes.

Skin contact:

Symptoms: Contact will probably cause irritation.

Eye contact:

Symptoms: Contact will probably cause irritation.

Ingestion:

Symptoms: Ingestion will probably cause irritation of the digestive tract.

**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

**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**

No data available

**Product:**

| | |
|---|---|
| Regulation | 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances |
| Remarks | This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). |

Additional ecological information : No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

| | | |
|---|---|---|
| EPA Hazardous Waste Code(s) | : | Not applicable. |
| Waste from residues | : | Do not dispose of waste into sewer.<br>Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Send to a licensed waste management company. |
| Contaminated packaging | : | Empty remaining contents.<br>Dispose of as unused product.<br>Do not re-use empty containers.<br>Do not burn, or use a cutting torch on, the empty drum. |

## SECTION 14. TRANSPORT INFORMATION

**International Regulations**

**IATA-DGR**

| | | |
|---|---|---|
| UN/ID No. | : | UN 3082 |
| Proper shipping name | : | Environmentally hazardous substance, liquid, n.o.s. (Ionic SMA copolymer) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | Miscellaneous Dangerous Goods |
| Packing instruction (cargo aircraft) | : | 964 |
| Packing instruction (passenger aircraft) | : | 964 |

**IMDG-Code**

| | | |
|---|---|---|
| UN number | : | UN 3082 |
| Proper shipping name | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.<br>(Ionic SMA copolymer) |
| | : | ) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | 9 |
| EmS Code | : | F-A, S-F |
| Marine pollutant | : | yes |
| Remarks | : | IMDG Code segregation group - none |

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

Not applicable for product as supplied.

**National Regulations**

**49 CFR**

| | | |
|---|---|---|
| UN/ID/NA number | : | UN 3082 |
| Proper shipping name | : | Environmentally hazardous substance, liquid, n.o.s.<br>(Ionic SMA copolymer) |
| Class | : | 9 |
| Packing group | : | III |
| Labels | : | CLASS 9 |
| Marine pollutant | : | no |

## SECTION 15. REGULATORY INFORMATION

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**US. EPA CERCLA Hazardous Substances (40 CFR 302)**

This material does not contain any components with a CERCLA RQ.

**SARA 304 - Emergency Release Notification**

This material does not contain any components with a section 304 EHS RQ.

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)**

This material does not contain any components with a SARA 302 RQ.

| | | |
|---|---|---|
| **SARA 311/312 Hazards** | : | Per the June 13, 2016 Federal Register notice, EPA harmonized the EPCRA 311/312 hazard categories with the 2012 OSHA hazard communication standard for classifying and labeling of chemicals (i.e. GHS). Please refer to Section 2 of the SDS to identify the appropriate hazard categories for reporting purposes. |

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

| | | |
|---|---|---|
| 1-Methyl-2-pyrrolidone | 872-50-4 | 69.7 % |

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Non-volatile (Wt) : 30.00 %
Method: 20min/175°C
DIN EN ISO 3251
Non-volatile information is not a specification.

**Massachusetts Right To Know**

| | |
|---|---|
| 1-Methyl-2-pyrrolidone | 872-50-4 |

**Pennsylvania Right To Know**

| | |
|---|---|
| 1-Methyl-2-pyrrolidone | 872-50-4 |
| Polymer with quaternized ammonium groups | 1431957-88-8 |
| Polyvinylpyrrolidone | 9003-39-8 |

**New Jersey Right To Know**

**New Jersey Trade Secret Registry Number for the product (NJ TSRN)** : 800963-5426

**California Prop. 65**

⚠ WARNING: This product can expose you to chemicals including 1-Methyl-2-pyrrolidone, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

**The components of this product are reported in the following inventories:**

TSCA : All substances listed as active on the TSCA inventory

Section 5a : No substances are subject to a Significant New Use Rule.

| | | |
|---|---|---|
| Section 4 / 12(b) | : | The following substance(s) is/are subject to TSCA 12(b) export notification requirements: |
| DSL | : | We certify that all of the components of this product are listed on the DSL. |

**SECTION 16. OTHER INFORMATION**

Revision Date : 05/17/2026

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.