

**DISPERBYK-109**

Version 9

Revision Date 06/29/2022

Print Date 09/29/2022

**SECTION 1. IDENTIFICATION**

Product name : DISPERBYK-109

**Manufacturer or supplier's details**

Company : BYK USA Inc.  
524 South Cherry Street  
Wallingford CT 06492

Telephone : (203) 265-2086

Visit our web site : [www.byk.com](http://www.byk.com)

E-mail address : [BRIEF.BYK.NAFTA@altana.com](mailto:BRIEF.BYK.NAFTA@altana.com)

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

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

Recommended use : Wetting &amp; Dispersing Additive

Restrictions on use : Refer to Section 15 for any restrictions that may apply

**SECTION 2. HAZARDS IDENTIFICATION****GHS Classification**

Skin irritation : Category 2

Serious eye damage : Category 1

Specific target organ toxicity : Category 2 (Gastrointestinal tract, Stomach)  
- repeated exposure (Oral)

**GHS label elements**

Hazard pictograms :



Signal word : Danger

Hazard statements : H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H373 May cause damage to organs (Gastrointestinal tract,  
Stomach) through prolonged or repeated exposure if swallowed.

Precautionary statements : **Prevention:**  
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P264 Wash skin thoroughly after handling.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**

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P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
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/ doctor.

P314 Get medical advice/ attention if you feel unwell.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Substance

Chemical nature : High molecular weight Alkylolamino amide

**Hazardous components**

Component	CAS-No.	Concentration (%)
Fatty acids, tall-oil, reaction products with 2-[(2-aminoethyl)amino]ethanol	68919-76-6	>= 99 - <= 100

**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 : If skin irritation persists, call a physician.  
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.

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- 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.  
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : No information available.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Cool closed containers exposed to fire with water spray.  
Will not explode on mechanical impact.
- Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)
- Further information : 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.
- 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.

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- 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 : 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**

- 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.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Electrical installations / working materials must comply with the technological safety standards.
- Materials to avoid : Keep away from strong acids.  
Keep away from oxidizing agents.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

Hazardous components without workplace control parameters

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

**Personal protective equipment**

- Respiratory protection : Not necessary.

Hand protection

- Material : Neoprene gloves

Remarks

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

Eye protection

- : Safety Glasses  
Goggles  
Eye wash bottle with pure water

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	Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place. Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	: Clean long legged, long sleeved work clothes. Handle in accordance with good industrial hygiene and safety practice. 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	: yellow - brown
Odour	: amine-like
Odour Threshold	: No data available
pH	: 9, Concentration: 1 % (68 °F (20 °C)) Method: Universal pH-value indicator
Pour point	: < -6 °F (< -21 °C) (1,013 hPa) Method: OECD Test Guideline 102 GLP: yes
Boiling point/boiling range	: > 752 °F (> 400 °C) (1,013 hPa) Method: OECD Test Guideline 103 GLP: yes
Vapour pressure	: 0.0000107 Pa (77.00 °F (25.00 °C)) Method: OECD Test Guideline 104 GLP: yes
Flash point	: > 212.00 °F (> 100.00 °C) Method: 49 (Pensky-Martens)
Upper explosion limit	: No data available

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Lower explosion limit	: No data available
Evaporation rate	: No data available
Relative vapour density	: No data available
Relative Density/Specific Gravity	: No data available
Density	: 0.939 g/cm <sup>3</sup> (68 °F (20 °C)) Method: 4 (20°C oscillating U-tube) GLP: yes
Bulk density	: Not applicable
Solubility(ies) Water solubility	: 0.0102 g/l (68 °F (20 °C), 1,013 hPa) Method: OECD Test Guideline 105 GLP: yes
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: Not applicable
Ignition temperature	: > 392 °F (> 200 °C) Method: DIN 51794
Thermal decomposition	: 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 data available
	No decomposition if stored and applied as directed.
Conditions to avoid	: No data available

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Incompatible materials : Acids  
Strong oxidizing agents

Hazardous decomposition products : None expected

**SECTION 11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Skin contact  
Skin Absorption  
Inhalation  
Eyes  
Ingestion

**Acute toxicity****Components:****68919-76-6 Fatty acids, tall-oil, reaction products with 2-[(2-aminoethyl)amino]ethanol:**

Acute oral toxicity : LD50 Oral (Rat, female): 2,500 mg/kg  
Method: OECD Test Guideline 423  
GLP: yes

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2,000 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

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

Remarks: Causes skin irritation.

Remarks: Extremely corrosive and destructive to tissue.

**Components:****68919-76-6 Fatty acids, tall-oil, reaction products with 2-[(2-aminoethyl)amino]ethanol:**

Species: EPISKIN human epidermis skin constructs  
Assessment: Irritating to skin.  
Method: OECD Test Guideline 439  
Result: Skin irritation  
GLP: yes

Species: EPISKIN human epidermis skin constructs  
Assessment: not corrosive  
Method: OECD Test Guideline 431  
Result: not corrosive  
GLP: yes

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

Remarks: May cause irreversible eye damage.

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin.

**Components:****68919-76-6 Fatty acids, tall-oil, reaction products with 2-[(2-aminoethyl)amino]ethanol:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Assessment: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

GLP: yes

Species: Bovine corneal opacity and permeability assay (BCOP)

Result: No eye irritation

Method: OECD Test Guideline 437

GLP: yes

**Respiratory or skin sensitisation****Components:****68919-76-6 Fatty acids, tall-oil, reaction products with 2-[(2-aminoethyl)amino]ethanol:**

Test Type: Mouse Local Lymph Node assay (LLNA)

Species: Mouse

Method: OECD Test Guideline 429

Result: Does not cause skin sensitisation.

GLP: yes

**Germ cell mutagenicity****Product:**

Genotoxicity in vivo : Remarks: No data available

**Components:****68919-76-6 Fatty acids, tall-oil, reaction products with 2-[(2-aminoethyl)amino]ethanol:**

Genotoxicity in vitro

: Test Type: Ames test

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

: Test Type: In vitro mammalian cell gene mutation test (mouse lymphoma)

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative



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GLP: yes

: Test Type: In Vitro Mammalian Cell Micronucleus Test (MNvit)  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 487  
Result: negative  
GLP: yes

**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

**Components:****68919-76-6 Fatty acids, tall-oil, reaction products with 2-[(2-aminoethyl)amino]ethanol:**

Effects on fertility :  
Species: Rat  
Sex: male and female  
NOAEL: 20 mg/kg,  
F1: 200 mg/kg,  
Method: OECD Test Guideline 421  
GLP: yes

**STOT - single exposure****Product:**

Remarks: No data available

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**STOT - repeated exposure****Product:**

Remarks: No data available

**Components:****68919-76-6 Fatty acids, tall-oil, reaction products with 2-[(2-aminoethyl)amino]ethanol:**

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

**Repeated dose toxicity****Components:****68919-76-6 Fatty acids, tall-oil, reaction products with 2-[(2-aminoethyl)amino]ethanol:**

Species: Rat, male and female

NOAEL: 20 mg/kg

Application Route: Oral

Method: OECD Test Guideline 422

GLP: No information available.

Species: Rat, male and female

NOAEL: 15 mg/kg

Application Route: Oral

Method: OECD Test Guideline 408

GLP: yes

**Aspiration toxicity****Product:**

No data available

**Experience with human exposure****Product:**

Inhalation:

Symptoms:

None expected.

Skin contact:

Symptoms:

Contact will probably cause severe irritation.

Eye contact:

Symptoms:

Contact will probably cause severe irritation and corrosion.

Ingestion:

Symptoms:

Ingestion will probably irritate the digestive tract; high dosages may cause CNS

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depression.

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

Remarks: No data available

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Results of PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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 : There is no data available for this product.

No data available

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

EPA Hazardous Waste Code(s) : Not applicable.

Waste from residues : Dispose of in accordance with applicable local/municipal,

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state/provincial and federal regulations.

Do not dispose of waste into sewer.  
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 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(Hydroxyalkylethenyl imidazoline)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
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.  
(Hydroxyalkylethenyl imidazoline)  
: )  
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.  
(Hydroxyethyl alkenylimidazoline salt)  
Class : 9

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Packing group : III  
Labels : CLASS 9  
ERG Code : 171  
Marine pollutant : no  
Container sizes: 55 gallon drums, 5 or 6-gallon pails, 2oz/16oz samples

**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 material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**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 SOCM Intermediate or Final VOC's (40 CFR 60.489).

**Massachusetts Right To Know**

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No components are subject to the Massachusetts Right to Know Act.

**Pennsylvania Right To Know**

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[(2-aminoethyl)amino]ethanol

**New Jersey Right To Know**

**New Jersey Trade Secret** : Not applicable  
**Registry Number for the**  
**product (NJ TSN)**

**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

TSCA : We certify that all of the components of this product are either listed on the TSCA Inventory or are not subject to the notification requirements per 40 CFR 720 30(h).

Section 4 / 12(b) : Not applicable

TSCA Inventory Active List All components of this product are listed active and/or are exempt

**SECTION 16. OTHER INFORMATION**

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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.