

# **ACTAL-UG 1**

Version 2 Revision Date 11/09/2021 Print Date 11/09/2021

#### **SECTION 1. IDENTIFICATION**

Product name **ACTAL-UG 1** 

Manufacturer or supplier's details

Company BYK USA Inc.

> 524 South Cherry Street Wallingford CT 06492

(203) 265-2086 Telephone Visit our web site www.byk.com

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

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 Thermal Transfer Medium

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

#### **SECTION 2. HAZARDS IDENTIFICATION**

#### **GHS Classification**

Specific target organ toxicity : Category 3 (Respiratory system)

- single exposure

#### **GHS** label elements

Hazard pictograms



Signal word : Warning

Hazard statements : H335 May cause respiratory irritation.

Precautionary statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P271 Use only outdoors or in a well-ventilated area.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/

doctor if you feel unwell.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.



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## Other hazards

None known.

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

Substance / Mixture : Substance Chemical nature : Aluminium oxide

**Hazardous components** 

Component	CAS-No.	Concentration (%)	
Aluminum oxide	1344-28-1	>= 99 - <= 100	

#### **SECTION 4. FIRST AID MEASURES**

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : If breathed in, move person into fresh air.

If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact : Wash off with soap and water.

Get medical attention if irritation develops and persists.

If on clothes, remove clothes. Wash clothing before reuse.

In case of eye contact : Flush eyes with water as a precaution.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Rinse mouth with water.

If swallowed, seek medical advice immediately and show this

container or label.

Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

: No information available.

#### **SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Foam

Carbon dioxide (CO2)



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Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

firefighting

: Handle as an industrial chemical.

Will not explode on mechanical impact.

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion

products

: No hazardous combustion products are known

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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.

Avoid dust formation. Avoid breathing dust.

Environmental precautions : 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.

Keep in suitable, closed containers for disposal.

#### **SECTION 7. HANDLING AND STORAGE**

Advice on safe handling : Avoid formation of respirable particles.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

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 : 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 : No special restrictions on storage with other products.



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## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum oxide	1344-28-1	TWA (Total)	10 mg/m3	OSHA P0
Aluminum oxide		TWA (Respirable fraction)	5 mg/m3	OSHA P0
Aluminum oxide		TWA (Respirable fraction)	1 mg/m3	ACGIH

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

Personal protective equipment

Respiratory protection : Unless air monitoring demonstrates vapor/mist/dust levels

are below the PEL/TLV wear a properly fitted respirator

(NIOSH approved) or dust mask during exposure.

In the case of dust or aerosol formation use respirator with an

approved filter.

Dust safety masks are recommended when the dust

concentration is more than 10 mg/m3.

Hand protection

Material : Neoprene

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

Skin and body protection : Dust impervious protective suit

Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : Wash hands before breaks and at the end of workday.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : powder Colour : white

Odour : No data available Odour Threshold : No data available

pH : 10.0, Concentration: 100 g/l(aqueous suspension)

Melting point/freezing point : Not applicable Boiling point/boiling range : Not applicable



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Vapour pressure : Not applicable

Flash point : Not applicable Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Evaporation rate : Not applicable

Flammability (solid, gas) : does not ignite

Relative vapour density : Not applicable

Relative Density/Specific

Gravity

Density : No data available

Bulk density : 1,000 kg/m3

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

Ignition temperature

: No data available

: No data available

: No data available

Thermal decomposition : Not applicable

Viscosity

Viscosity, dynamic : Not applicable

#### **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 : No decomposition if stored and applied as directed.

reactions

Dust may form explosive mixture in air.

Conditions to avoid : No data available Incompatible materials : None known.

Hazardous decomposition : No data available

products



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## **SECTION 11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

Inhalation Ingestion Eye contact Skin contact

## **Acute toxicity**

#### **Product:**

Acute oral toxicity : Remarks: No data available

#### **Components:**

## 1344-28-1 Aluminum oxide:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5.38 mg/l

#### Skin corrosion/irritation

#### **Product:**

Remarks: No data available

## **Components:**

## 1344-28-1 Aluminum oxide:

Species: Rabbit

Result: Moderate skin irritation

## Serious eye damage/eye irritation

## **Product:**

Remarks: Product dust may be irritating to eyes, skin and respiratory system.

#### **Components:**

## 1344-28-1 Aluminum oxide:

Species: Rabbit Result: Eye irritation

#### Respiratory or skin sensitisation

## **Product:**

Remarks: No data available

## Carcinogenicity

IARC No component of this product present at levels greater than or



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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.

# Repeated dose toxicity

#### **Product:**

Remarks: When in respirable form, aluminum oxide exposure has been associated with lung fibrosis. Additionally occupational aluminum oxide exposure has been associated w/neurological disorders but the evidence is inconclusive.

# Experience with human exposure

## **Product:**

Inhalation:

Symptoms: Dust particles may cause irritation of the

respiratory tract.

Skin contact:

Symptoms: Contact may cause irritation.

Eye contact:

Symptoms: Contact may 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 :



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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

**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

: No data available

#### **SECTION 13. DISPOSAL CONSIDERATIONS**

Disposal methods

Waste from residues : 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**



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#### IATA-DGR

Not regulated as a dangerous good

#### **IMDG-Code**

Not regulated as a dangerous good

## 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**

Not regulated as a dangerous good

#### **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.

Aluminum oxide 1344-28-1 100 %

#### 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).



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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) : No data available

**Massachusetts Right To Know** 

Aluminum oxide 1344-28-1

Pennsylvania Right To Know

Aluminum oxide 1344-28-1

**New Jersey Right To Know** 

Aluminum oxide 1344-28-1

New Jersey Trade Secret : 800963-1170

Registry Number for the product (NJ TSRN)

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).

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

exempt

DSL : We certify that all of the components of this product are listed

on the DSL.

#### **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.