

SAFETY DATA SHEET

Aniline Blue, C.I. 42780

Version 2 · issued 17 September 2026

1. IDENTIFICATION**Product Identifiers**

Product Name Aniline Blue, C.I. 42780
Other Names Calcoide Blue B, Acid Blue R, Chine Blue, Ink Blue A.
Product Number(s) C066, C0661, C0665
CAS Number 28631-66-5

Recommended use of the chemical and restriction on use

Laboratory use.

Company Details

ProSciTech Pty Ltd
11 Carlton Street
KIRWAN QLD 4817
Australia
(07) 4773 9444
pst@proscitech.com
proscitech.com.au

Emergency Contact Details

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2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Skin irritation (Category 2)
Eye irritation (Category 2A)
Skin sensitization (Category 1)

Label Elements**Harmful / irritant**

Signal Words Warning

Hazard Statement(s) H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

Precautionary Statement(s) P280 Wear protective gloves.
P305 ± P351 ± P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.

Primary route(s) of entry

Not available.

Human Health

Inhalation Harmful by inhalation.

Ingestion Harmful if swallowed.

Eyes Risk of serious damage to eyes.

Skin Harmful in contact with skin.

Environment

No further relevant information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
C.I. Acid Blue 93	28631-66-5	-	-

4. FIRST AID MEASURES

Ingestion	Do not induce vomiting without medical advice. Rinse with water. Consult physician.
Inhalation	Move to fresh air. Consult a physician.
Skin Contact	Rinse with plenty of soap & water and seek medical advice.
Eye Contact	Rinse immediately with plenty of water and seek medical advice.
Other Information	Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES**Suitable extinguishing equipment**

Fire Use water spray, dry chemical, Carbon dioxide, or alcohol-resistant foam.

HAZCHEM Not available.

Special protective equipment and precautions for fire fighters

During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH approved or equivalent, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use proper PPE as indicated in Section 8.

Environmental precautions Not available.

Methods and materials for containment and clean up Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section.
Avoid generating dusty conditions.
Provide ventilation.

7. HANDLING AND STORAGE

Precautions for safe handling Wash thoroughly after handling.
Remove contaminated clothing and wash before reuse.
Use with adequate ventilation.
Minimize dust generation and accumulation.
Avoid contact with eyes, skin, and clothing.
Keep container tightly closed.
Avoid ingestion and inhalation.

Conditions for safe storage Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Standards**

Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³
C.I. Acid Blue 93	Non listed	Non listed	-	-

Engineering controls Facilities storing or utilising this material should be equipped with an eyewash facility and safety shower.
Use adequate ventilation to keep airborne concentrations low.

Personal protective equipment

Eye and face protection Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection Wear appropriate protective gloves to prevent skin exposure.

Body protection Wear appropriate protective clothing to prevent skin exposure.

Respiratory protection Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES**General information**

Appearance Purple - dark red-brown powder

Odour Odorless

pH	Not available.
Vapour Pressure	Negligible
Density	Not available.
Boiling Point	Not available.
Melting Point	Not available.
Solubility	Not available.
Specific Gravity of Density	Not available.
Flash Point	Not available.
Flammable (Explosive) Limits	Not available.
Ignition Temperature	Not available.
Formula	C ₃₂ H ₂₅ N ₃ Na ₂ O ₉ S ₃

10. STABILITY AND REACTIVITY

Reactivity	No further relevant information available.
Chemical stability	Stable at room temperature in closed containers under normal storage and handling conditions.
Possibility of hazardous reactions	Nitrogen oxides, carbon monoxide, oxides of sulphur, carbon dioxide, nitrogen.
Conditions to avoid	Incompatible materials, dust generation.
Incompatible materials	Strong oxidising agents.

11. TOXICOLOGICAL INFORMATION

Acute effects	No further relevant information available.
Eye contact	No further relevant information available.
Skin contact	No further relevant information available.
Ingestion	No further relevant information available.
Inhalation	No further relevant information available.
Toxicity and irritation	No further relevant information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Other adverse effects	No further relevant information available.

13. DISPOSAL CONSIDERATIONS

General information

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. TRANSPORT INFORMATION

ADG label required	
HAZCHEM	Not available.
UN Number	None.
Proper shipping name	Acid blue 93 CAS#28631-66-5
Transport hazard class	0
Packing group	None.
Environmental hazard	No information available.
Special precautions for users	Not applicable.
Additional information	No information available.

15. REGULATORY INFORMATION

Poisons Schedule Number	Not listed.
Other Information	No further relevant information available.

16. OTHER INFORMATION

SDS preparation date	17 September 2026
Comments	Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
References	Electron Microscopy Science SDS "Aniline Blue Disodium Salt, Water Soluble, DcK-14" 16/01/2025 https://www.emsdiasum.com/docs/technical/msds/10840.pdf Sigma-Aldrich SDS "ANILINE BLUE SOLUTION". 27/11/2024 https://www.sigmaaldrich.com/AU/en/sds/sigma/b8563?userType=anonymous

This Safety Data Sheet (SDS) has been prepared in compliance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice February 2016. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this SDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

... End of SDS ...