

Safety Data Sheet DECAL FLUID RAPID Double Strength

SDS no. N51XHLBY • Version 1.0 • Date of issue: 2025-12-17

SECTION 1: Identification

GHS Product identifier

Product name DECAL FLUID RAPID Double Strength

Product number ADFR2

Recommended use of the chemical and restrictions on use

Laboratory reagent.

Supplier's details

Name	ChemSupply Australia Pty Ltd
Address	38-50 Bedford Street 5013 Gillman South Australia Australia

Telephone 08 8440 2000
email www.chemsupply.com.au

National contact

Name	Australian Biostain Pty Ltd
Address	16 Shipwright Road 5016 Largs North SA Australia

Emergency phone number

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

SECTION 2: Hazard identification

General hazard statement

Dangerous goods of Class 5.1 (Oxidizing Agent) are incompatible in a placard load with any of the following:
Class 1, Class 2.1, Class 2.3, Class 3, Class 4, Class 5.2, Class 7, Class 8, Fire risk substances and Combustible liquids.

Classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classification of the substance or mixture

GHS classification in accordance with: UN GHS revision 7

- Serious eye damage/eye irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1A
- Corrosive to metals, Cat. 1

Safety Data Sheet

DECAL FLUID RAPID Double Strength

SDS no. N51XHLBY • Version 1.0 • Date of issue: 2025-12-17

GHS label elements, including precautionary statements

Pictograms



Signal word

Danger

Hazard statement(s)

H314

Causes severe skin burns and eye damage

H290

May be corrosive to metals

Precautionary statement(s)

P260

Do not breathe dust/fume/gas/mist/vapors/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P304+P340

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P363

Wash contaminated clothing before reuse.

P501

Dispose of contents/container to an approved waste disposal facility

P390

Absorb spillage to prevent material-damage.

P406

Store in a corrosive resistant/... container with a resistant inner liner.

SECTION 3: Composition/information on ingredients

Mixtures

Component	Identification	Weight %	Classifications
Water	CAS no.: 7732-18-5 EC no.: 231-791-2	>= 90 %	CLASSIFICATIONS: No data available. HAZARDS: No data available.
Nitric acid (40% to 70%)	CAS no.: 7697-37-2 EC no.: 231-714-2 Index no.: 007-030-00-3	<= 10 %	CLASSIFICATIONS: Skin corrosion/irritation, Cat. 1A; Oxidizing liquids, Cat. 2; Corrosive to metals, Cat. 1. HAZARDS: H272 - May intensify fire; oxidizer; H290 - May be corrosive to metals; H314 - Causes severe skin burns and eye damage. [SCLs/M-factors/ATEs]: Inhalation: ATE = 2.65 mg/L (Vapours); Ox. Liq. 3; H272: C ≥ 65 %; Skin Corr. 1A; H314: C ≥ 20 %; Skin Corr. 1B; H314: 5 % ≤ C < 20 %
Urea	CAS no.: 57-13-6 EC no.: 200-315-5	<= 0.02 %	CLASSIFICATIONS: No data available. HAZARDS: No data available.

SECTION 4: First-aid measures

Description of necessary first-aid measures

General advice

First Aid Facilities: Maintain eyewash fountain and drench facilities in work area.

Safety Data Sheet

DECAL FLUID RAPID Double Strength

SDS no. N51XHLBY • Version 1.0 • Date of issue: 2025-12-17

If inhaled	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
In case of skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Wash contaminated clothing before reuse. Acute and delayed symptoms and effects: Causes severe skin burns. Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.
In case of eye contact	If in eyes, hold eyelids apart and flush eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre (e.g. phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor, or for at least 15 minutes.
If swallowed	Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.
Personal protective equipment for first-aid responders	WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate protective equipment, use the 'buddy' system).

Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of immediate medical attention and special treatment needed, if necessary

For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

When material is not involved in fire: Do not use water on material itself.

Small fire: Use CO₂, dry chemical, dry sand or flooding quantities of water. If safe to do so, move undamaged containers from the fire area.

Large fire: Flood fire with large quantities of water while knocking down vapours with water fog - If insufficient water supply, knock down vapours only.

Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.

Specific hazards arising from the chemical

Hazards from Combustion Products: Corrosive, irritating and highly toxic gases of nitrogen oxides. (May react with many metals, particularly in powdered form, to form extremely flammable hydrogen gas.)

Does not burn but may produce poisonous and/or corrosive fumes upon heating. Heat of reaction may be enough to ignite combustible materials. Will react with water possibly violently releasing flammable, poisonous and/or corrosive gases and runoff. Contact with metals may evolve flammable hydrogen gas. Fire may produce irritating, poisonous and/or corrosive gases. Runoff may pollute waterways. Containers may explode when heated or contaminated with water.

Special protective actions for fire-fighters

Wear SCBA and acid-resistant chemical splash suit. Structural firefighter's uniform is NOT effective for these materials.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Safety Data Sheet

DECAL FLUID RAPID Double Strength

SDS no. N51XHLBY • Version 1.0 • Date of issue: 2025-12-17

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

Methods and materials for containment and cleaning up

Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes, clothing and other combustible materials. Keep container tightly closed and locked up. Work under fume extractor. Use only with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wash thoroughly after handling. Immediately change contaminated clothing and wash promptly. Keep away from incompatibles such as metals, alkalis. May corrode metallic surfaces. Do not empty into drains, dispose of this material and its container in a safe way.

Conditions for safe storage, including any incompatibilities

Corrosive materials should be stored in a separate safety storage cabinet or room. Store in tightly closed containers, in a cool, dry, well-ventilated area.

Corrosiveness: Corrosive to metals.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 7697-37-2

Nitric acid (40% to 70%)

AU/SWA (Australia): 4 ppm; 10 mg/m³ STEL inhalation [Nitric acid]; 2 ppm; 5.2 mg/m³ TWA inhalation [Nitric acid]

Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Skin protection

Clean impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Body protection

Footwear: Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.

Body Protection: Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

Respiratory protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/ mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/ NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/ NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

SECTION 9: Physical and chemical properties

Safety Data Sheet

DECAL FLUID RAPID Double Strength

SDS no. N51XHLBY • Version 1.0 • Date of issue: 2025-12-17

Basic physical and chemical properties

Physical state	Liquid
Appearance	No data available.
Color	Clear, colourless to slightly yellowish
Odor	No data available.
Odor threshold	No data available.
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flammability	Not combustible. Can react with most metals to liberate flammable hydrogen gas which can form explosive mixtures with air.
Lower and upper explosion limit/flammability limit	No data available.
Flash point	No data available.
Explosive properties	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Oxidizing properties	Will cause a moderate increase in the burning rate of combustible materials with which it comes into contact.
pH	Acidic pH < 1
Kinematic viscosity	No data available.
Solubility	Solubility in Water: Miscible (soluble) in all proportions.
Partition coefficient n-octanol/water (log value)	No data available.
Vapor pressure	No data available.
Evaporation rate	No data available.
Density and/or relative density	No data available.
Relative vapor density	No data available.
Particle characteristics	No data available.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

No data available.

SECTION 10: Stability and reactivity

Safety Data Sheet

DECAL FLUID RAPID Double Strength

SDS no. N51XHLBY • Version 1.0 • Date of issue: 2025-12-17

Reactivity

Stable under normal conditions of storage and handling.

Chemical stability

Stable under normal conditions of storage and handling.

Possibility of hazardous reactions

None under normal use conditions.

Will corrode metals. Will produce toxic gases on contact with cyanides, sulphides etc.

Hazardous Polymerization: Will not occur.

Conditions to avoid

Heat and high temperatures and incompatible materials.

Incompatible materials

Metals.

Hazardous decomposition products

Toxic nitrogen oxides fumes.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Ingestion: Swallowing can cause pain and irritation to the lips, mouth, tongue, teeth, throat, oesophagus and digestive system. May cause perforation of the digestive tract. Ingestion is not a typical route of occupational exposure.

Inhalation: May produce irritation to the respiratory tract and the digestive system.

Skin corrosion/irritation

Causes sever skin burns. Symptoms may include severe irritation, itching, pain, reddening, blistering of the skin.

Serious eye damage/irritation

Causes severe eye damage. Symptoms may include inflammation, redness, watering, and itching.

Respiratory or skin sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

Specific target organ toxicity (STOT) - single exposure

Not classified based on available information.

Specific target organ toxicity (STOT) - repeated exposure

Not classified based on available information.

Aspiration hazard

Safety Data Sheet

DECAL FLUID RAPID Double Strength

SDS no. N51XHLBY • Version 1.0 • Date of issue: 2025-12-17

Not classified based on available information.

Additional information

Chronic Effects: Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation, skin burns and ulcerations. Repeated skin contact with low concentrations of acid solutions, mists or vapour can cause skin irritation, redness, swelling and pain (dermatitis). Repeated exposure to nitric acid vapours, mists or aerosols may cause discolouration and/or erosion of teeth (dental enamel).

SECTION 12: Ecological information

Toxicity

Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Does not cause biological oxygen deficit. Hazard for drinking water supplies. The following applies to nitrates in general: may contribute to the eutrophication of water supplies.

Hazard for drinking water.

Bioaccumulative potential

No bioaccumulation is to be expected ($\log P(o/w) < 1$).

Other adverse effects

Environmental Fate: Terrestrial: During transport through the soil, nitric acid will dissolve some of the soil material, in particular, the carbonate based materials. The acid will be neutralized to some degree with adsorption of the proton also occurring on clay materials. However, significant amounts of acid are expected to remain for transport down toward the ground water table. Upon reaching the ground water table, the acid will continue to move, now in the direction of the ground water flow.

SECTION 13: Disposal considerations

Disposal methods

Product disposal

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers.

Waste treatment

Small quantities may be diluted & carefully neutralised with soda ash or slaked lime. After dilution and neutralisation, disposal may be possible through the sewer system after consultation with your local authority.

Sewage disposal

No bioaccumulation is to be expected ($\log P(o/w) < 1$).

Other disposal recommendations

Do not discharge this material into waterways, drains and sewers.

SECTION 14: Transport information

ADG (Road and Rail)

UN Number: 1760

Class: 8

Packing Group: II

Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (Contains 10% Nitric acid)

Environmental Hazards: Toxic for aquatic organisms. Toxic effect on fish and plankton. Harmful effect due to pH shift. Forms corrosive mixtures with water even if diluted. Does not cause biological oxygen deficit. Hazard for drinking water supplies.

Hazchem emergency action code (EAC)

2X

IMDG

UN Number: 1760

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Class: 8

Packing Group: II

Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (Contains 10% Nitric acid)

IATA

UN Number: 1760

Class: 8

Packing Group: II

Proper Shipping Name: CORROSIVE LIQUID, N.O.S. (Contains 10% Nitric acid)

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

Australia SUSMP

Poison Schedule: S6

SECTION 16: Other information

Further information/disclaimer

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

Preparation information

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Standard for the Uniform Scheduling of Medicines and Poisons, Commonwealth of Australia

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'

Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', July 2020.

Safe Work Australia, 'National Guide for Classifying Hazardous Chemicals', July 2020.

Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants, December 2019

Safe Work Australia, Hazardous Chemical Information System (HCIS), hcis.safeworkaustralia.gov.au

IATA, Dangerous Goods Regulations (DGR)

IMO, International Maritime Dangerous Goods Code (IMDG)