

SAFETY DATA SHEET

Date of last issue:

Date of first issue: 2023-06-14

Section 1—Identification

Product identifier

Product name : Multi Purpose Ink Green

MP31-GL220U

Recommended use of the chemical and restrictions on use

Recommended use : Digital Printing

Details of manufacturer or importer

Company : MUTOH AUSTRALIA PTY. LTD.

Address : Unit 19/76 Reserve Road, Artarmon, NSW 2064, Australia

Contact section : admin@mutoh-au.com or +61 2 9437 1366

Telephone : +61 2 94371366

Emergency telephone number

Emergency phone number (business hours): +61 2 9437 1366

Section 2—Hazard(s) identification

Classification of the hazardous chemical

Flammable liquids : Category 4

Label elements, including precautionary statements

Hazard pictograms : none

Signal word : Warning

Hazard statement(s) : H227 Combustible liquid.

Precautionary statement(s) : **Prevention**:

P210 Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/

face protection.

Storage:

P403 Store in a well-ventilated place.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards which do not result in classification

Vapours may form explosive mixture with air.

Section 3—Composition and information on ingredients

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
2-Butoxyethyl acetate	112-07-2	10 - 20

Section 4—First aid measures



General advice : In the case of accident or if you feel unwell, seek medical advice

immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.

Get medical attention if symptoms occur.

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

Get medical attention if irritation develops and persists.

If swallowed, DO NOT induce vomiting.

Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

Most important symptoms and effects, both acute and delayed

None known.

Protection of first-aiders : No special precautions are necessary for first aid responders.

Notes to physician : Treat symptomatically and supportively.

Section 5—Firefighting measures

Suitable extinguishing media : Water spray

Alcohol-resistant foam Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing media : High volume water jet

Specific hazards during

firefighting

Do not use a solid water stream as it may scatter and spread fire.

Flash back possible over considerable distance. Vapours may form explosive mixtures with air.

Exposure to combustion products may be a hazard to health.

Hazardous combustion product : Carbon oxides

Metal oxides

Specific extinguishing methods : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment. Use water spray to cool unopened containers.

Remove undamaged containers from fire area if it is safe to do so.

Evacuate area.

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if

necessary.

Use personal protective equipment.

Section 6—Accidental release measures

Personal precautions, protective:

equipment and emergency

procedures

Remove all sources of ignition.

Follow safe handling advice and personal protective equipment

recommendations.

Environmental precautions : Discharge into the environment must be avoided.



Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages cannot

be contained.

Methods and materials for containment and cleaning up

Non-sparking tools should be used. Soak up with inert absorbent material.

Suppress (knock down) gases/vapours/mists with a water spray

jet.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations

are applicable.

Sections 13 and 15 of this SDS provide information regarding

certain local or national requirements.

Section 7—Handling and storage

Technical measures : See Engineering measures under EXPOSURE CONTROLS/

PERSONAL PROTECTION section.

Local/Total ventilation : Use with local exhaust ventilation.

Use only in an area equipped with explosion proof exhaust

ventilation.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety

practice, based on the results of the workplace exposure

assessment.

Keep container tightly closed.

Keep away from heat and sources of ignition.

Take precautionary measures against static discharges.

Take care to prevent spills, waste and minimize release to the

environment.

Hygiene measures : Ensure that eye flushing systems and safety showers are located

close to the working place.

When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

Conditions for safe storage : Keep in properly labelled containers.

Keep tightly closed.

Keep in a cool, well-ventilated place.

Store in accordance with the particular national regulations.

Keep away from heat and sources of ignition.

Materials to avoid : Do not store with the following product types:

Strong oxidizing agents

Section 8—Exposure controls and personal protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
2-Butoxyethyl	112-07-2	STEL	50 ppm	AU OEL



acetate		333 mg/m3				
	Further information: Skin	Further information: Skin absorption				
	TWA	20 ppm 133 mg/m3	AU OEL			
	Further information: Skin	Further information: Skin absorption				
	TWA	20 ppm	ACGIH			

Engineering measures : Ensure adequate ventilation, especially in confined areas.

Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment demonstrates that

exposures are within recommended exposure guidelines.

Filter type : Combined particulates and organic vapour type

Hand protection

Material : Chemical-resistant gloves

Remarks : Choose gloves to protect hands against chemicals depending on

the concentration and quantity of the hazardous substance and specific to place of work. Take note that the product is flammable, which may impact the selection of hand protection. Wash hands

before breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment:

Safety glasses

Skin and body protection : Select appropriate protective clothing based on chemical

resistance data and an assessment of the local exposure potential.

Wear the following personal protective equipment:

Flame retardant antistatic protective clothing, unless assessment demonstrates that the risk of explosive atmospheres or flash fires

is low

Skin contact must be avoided by using impervious protective

clothing (gloves, aprons, boots, etc).

Section 9—Physical and chemical properties

Appearance : liquid

Colour : green

Odour : solvent-like

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling

range

No data available

Flash point : 65 °C

Method: Tag closed cup

Evaporation rate : No data available





Flammability (solid, gas) : Not applicable

Flammability (liquids) : No data available

Upper explosion limit / Upper

flammability limit

: No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Solubility(ies)

Water solubility : immiscible

Partition coefficient:

n-octanol/water

Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : The substance or mixture is not classified self-reactive.

Viscosity

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle size : Not applicable

Section 10—Stability and reactivity

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reactions: Combustible liquid.

Vapours may form explosive mixture with air. Can react with strong oxidizing agents.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

No hazardous decomposition products are known.

Section 11—Toxicological information

Exposure routes : Inhalation

Skin contact Ingestion Eye contact

Acute toxicity



Not classified based on available information.

Components:

2-Butoxyethyl acetate:

Acute oral toxicity : LD50 (Rat): 1,880 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 20 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Expert judgement

Remarks: Based on harmonised classification in EU regulation

1272/2008, Annex VI

Acute dermal toxicity : LD50 (Rabbit): 1,500 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

2-Butoxyethyl acetate:

Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components:

2-Butoxyethyl acetate:

Species: Rabbit

Result: No eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Components:

2-Butoxyethyl acetate:

Test Type: Buehler Test Exposure routes: Skin contact

Species: Guinea pig Result: negative

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

Components:

2-Butoxyethyl acetate:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay) Species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Components:

2-Butoxyethyl acetate:



Species: Rat

Application Route: inhalation (vapour)

Exposure time: 2 Years Result: negative

Remarks: Based on data from similar materials

Reproductive toxicity

Not classified based on available information.

Components:

2-Butoxyethyl acetate:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Mouse

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development

Species: Rabbit

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

2-Butoxyethyl acetate:

Species: Rat, male NOAEL: < 69 mg/kg

Application Route: Ingestion Exposure time: 90 Days

Aspiration toxicity

Not classified based on available information.

Section 12—Ecological information

Ecotoxicity

Components:

2-Butoxyethyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 28 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 37 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 1,570 mg/l

Exposure time: 72 h Method: ISO 8692

Toxicity to daphnia and other

aquatic invertebrates (Chronic

toxicity)

: EC10 (Ceriodaphnia dubia (water flea)): 30.4 mg/l

Exposure time: 7 d

Toxicity to microorganisms : IC:

: IC50: 2,800 mg/l



Exposure time: 16 h

Persistence and degradability

Components:

2-Butoxyethyl acetate:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 88 % Exposure time: 28 d

Bioaccumulative potential

Components:

2-Butoxyethyl acetate:

Partition coefficient: : log Pow: 1.51

n-octanol/water

Mobility in soilNo data available

Other adverse effects

No data available

Section 13—Disposal considerations

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling

site for recycling or disposal.

Empty containers retain residue and can be dangerous.

Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition.

They may explode and cause injury and/or death.

If not otherwise specified: Dispose of as unused product.

Section 14—Transport information

International Regulations UNRTDG

Not regulated as dangerous goods

IATA-DGR

Not regulated as dangerous goods

IMDG-Code

Not regulated as dangerous goods

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

Not applicable for product as supplied.

National Regulations

ADG

Not regulated as dangerous goods

Section 15—Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform : Schedule 6

Scheduling of Medicines and

Poisons





Prohibition/Licensing Requirements

There is no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth,

State or Territory legislation.

Section 16—Any other relevant information

Further information

Sources of key data used to compile the Safety Data Sheet Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency,

http://echa.europa.eu/

Date of preparation or review

Revision Date 2023-06-14

Key abbreviations or acronyms used

ACGIH USA. ACGIH Threshold Limit Values (TLV)

AU OEL Australia. Workplace Exposure Standards for Airborne

Contaminants.

ACGIH / TWA 8-hour, time-weighted average ACGIH / STEL Short-term exposure limit

AU OEL / TWA Exposure standard - time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC -International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC -Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM -Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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