

SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

Product identifier			
Product No.:	Product name:	Common name(s), synonym(s)	
212532	BD BBL™ Gram Safranin	No data available	

Recommended use of the chemical and restrictions on use

Recommended use: Scientific and industrial laboratory use. For In Vitro Diagnostic Use. **Recommended restrictions:** None known.

Supplier's details

Supplier	
Company Name:	Becton Dickinson Ltd.
Address:	14B George Bourke Drive
Telephone:	Mt Wellington, Auckland, 1060 0800 572 468
Fax:	0000 372 400
Contact Person:	Customer Service
E-mail:	bd_anz@bd.com

Emergency telephone number: ChemTrec New Zealand: +(64)-98010034

2. Hazard(s) identification

GHS classification

Physical Hazards	
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Flammable liquids	Category 3
Health Hazards	
Serious Eye Damage/Eye Irritation	Category 2
Toxic to reproduction	Category 2
Specific Target Organ Toxicity - Single Exposure	Category 1
Specific Target Organ Toxicity - Repeated Exposure	Category 2

Label Elements

Pictograms:



Signal Word:	Warning
Hazard Statement:	Flammable liquid and vapor. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure.
Precautionary Statemen	
Prevention:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
Response:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Call a POISON CENTER/doctor. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage:	Store in a well-ventilated place. Keep cool. Store locked up.
Disposal:	Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
Other hazards which do no result in GHS classification	

3. Composition/information on ingredients



Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Ethanol	No data available.	64-17-5	15 - 40%
Methanol	No data available.	67-56-1	1 - 5%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures	Description of necessary first-aid measures	
General information:	Get medical attention if symptoms occur.	
Inhalation:	Provide fresh air, warmth and rest, preferably in comfortable upright sitting position.	
Skin Contact:	Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.	
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.	
Ingestion:	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.	
Personal Protection for First-aid Responders:	No data available.	
Most important symptoms and effects,	both acute and delayed	
Symptoms:	Symptoms may be delayed.	
Hazards:	Causes damage to organs. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.	
Indication of immediate medical attention an	id special treatment needed	
Treatment:	Get medical attention if symptoms occur.	
5. Fire-fighting measures		
ar	ktinguish all ignition sources. Avoid sparks, flames, heat nd smoking. Ventilate. Use water spray to keep fire- kposed containers cool. In case of fire: Evacuate area.	



Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	Not applicable
Special hazards arising from the substance or mixture:	Fire or excessive heat may produce hazardous decomposition products.
Special protective equipment and p	precautions for fire-fighters
Special fire-fighting procedures:	May travel considerable distance to source of ignition and flash back.May explode when heated or when exposed to flames or sparks.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Accidental release measures	
Personal precautions, protective equipment and emergency procedures:	Contact local authorities in case of spillage to drain/aquatic environment. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
Accidental release measures: Methods and material for containment and cleaning up:	No data available. All equipment used when handling the product must be grounded. Eliminate sources of ignition. Prevent spreading of vapors through sewers, ventilation systems and confined areas. Absorb spillage with suitable absorbent material. Prevent runoff from entering drains, sewers, or streams. See Section 8 of the SDS for Personal Protective Equipment. For waste disposal, see section 13 of the SDS.
Environmental Precautions:	Avoid release to the environment.
landling and storage	

Technical measures (e.g. Local and general ventilation):	Use explosion-proof ventilation equipment. Adequate ventilation should be provided so that exposure limits are not exceeded.
Safe handling advice:	When using do not eat, drink or smoke. Read and follow manufacturer's recommendations. Use personal protective equipment as required. Use spark-proof tools and explosion-proof equipment.



Contact avoidance measures:	No data available.
Storage	
Safe storage conditions:	Keep container tightly closed. Keep in a cool, ventilated location far from heat source and flame
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Biological Limit Values

Chemical name	Parameters / Sampling Time	Exposure Limit Values	Source
Methanol	Methyl alcoholSampling time: End of shift.	15 mg/l (Urine)	NZ BEI (07 2011)

Appropriate Engineering
Controls:Use explosion-proof ventilation equipment. Adequate ventilation should be
provided so that exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

General information:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection	
Hand Protection:	Chemical resistant gloves Suitable gloves can be recommended by the glove supplier. Wash hands after contact.
Other:	Wear a lab coat or similar protective clothing.
Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Hygiene measures:	Observe good industrial hygiene practices.



Physical state:LiquidForm:LiquidColor:According to product specification.Odor:CharacteristicOdor Threshold:No data available.Freezing point:No data available.Boiling Point:174 "F/79 "CFlammability:No data available.Upper/lower limit on flammability or explosive limitsExplosive limit - upper:No data available.Explosive limit - lower:No data available.Explosive limit - lower:No data available.Explosive limit - lower:No data available.Flammability:So data available.Pash Point:99 "F/37 "CSelf Ignition Temperature:No data available.Pri:No data available.Ph:No data available.Ph:No data available.ViscosityNot determined.Joyamic viscosity:Not determined.Flow Time:No data available.Solubility in Water:Completely SolubleSolubility (other):No data available.Partition coefficient (n-No data available.octanol/water):No data available.Partition coefficient (n-No data available.Porstre:No data available.Particle density:No data available.Particle density:No data available.Particle size Distribution:No data available.Particle Size Distribution:No data available.Particle Size Distribution:No data available.Particle Size Distribution:No da	formation on basic physical and chem	nical properties
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Shape: No data available.	Surface charge/Zeta potential:	No data available.
	Shape:	No data available.



Crystallinity:	No data available.
Surface treatment:	No data available.
Other information	
Metal Corrosion:	Non-corrosive per US Department of Transportation testing protocol.
10. Stability and reactivity	
Reactivity:	Material is stable under normal conditions.
Chemical Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	Stable
Conditions to avoid:	Avoid exposure to high temperatures or direct sunlight. Flammable/combustible - Keep away from oxidizers, heat and flames. Keep away from sources of ignition - No smoking.
Incompatible Materials:	Water reactive material.
Hazardous Decomposition Products:	Stable; however, may decompose if heated.

11. Toxicological information

General information:	Can cause internal organ effects.
Information on toxicological effects	
Inhalation:	Limited inhalation hazard at normal work temperatures.
Skin Contact:	Negligible irritation to skin at ambient temperatures.
Eye contact:	Elevated temperatures or mechanical action may form vapors, mist, or fumes which may be irritating to the eyes, nose, throat, or lungs.
Ingestion:	No data available.
Information on likely routes of exposure	
Acute toxicity (list all possible routes of exposure)	
Oral Product:	ATEmix: 10,000 mg/kg

No data available.

Components:

Ethanol



Methanol	LD 50 (Pig): 5,000 mg/kg
Dermal Product:	ATEmix: 30,000 mg/kg
Components: Ethanol	LD 50 (Rabbit): 17,100 mg/kg
Methanol	LD 50 (Rabbit): 17,100 mg/kg
Inhalation Product: Components: Ethanol Methanol	ATEmix: 300 mg/l Vapour; ATEmix: 51 mg/l Dusts, mists and fumes; LC 50 (Rat, 4 h): 117 - 125 mg/l 2 = reliable with restrictions; No data available.
Repeated dose toxicity Product: Components: Ethanol Methanol	No data available. No data available. NOAEL (Mouse(Female, Male), Inhalation, 7,202 - 7,373 h): 0.13 mg/l Experimental result, Weight of Evidence study Inhalation NOAEL (Rat(Male), Inhalation, 1 - 6 Weeks): 2.65 mg/l Experimental result, Supporting study Inhalation NOAEL (Rat(Male), Inhalation): 1.06 mg/l Experimental result, Supporting study Inhalation NOAEL (Rat(Female, Male), Inhalation, 7,318 - 7,496 h): 0.13 mg/l Experimental result, Weight of Evidence study Inhalation LOAEL (Rat(Female, Male), Inhalation, 7,318 - 7,496 h): 1.3 mg/l Experimental result, Weight of Evidence study Inhalation
Skin Corrosion/Irritation Product: Components: Ethanol Methanol	No data available. No data available.
Serious Eye Damage/Eye Iri Product: Components: Ethanol Methanol	
Respiratory or Skin Sensitiz Product: Components: Ethanol Methanol Carcinogenicity Product:	 No data available. Based on available data, the classification criteria are not met. Skin sensitization:, in vivo (Guinea pig): Non sensitising Skin sensitization:, in vivo (Guinea pig): Non sensitising No data available.



Components: Ethanol	Based on available data, the classification criteria are not met.
Methanol	No data available.
	aluation of Carcinogenic Risks to Humans: ne present in regulated quantities
Germ Cell Mutagenicity	
In vitro	
Product:	No data available.
Components:	Described and the later the share first the subscription of the state
Ethanol	Based on available data, the classification criteria are not met.
Methanol	No data available.
In vivo	
Product:	No data available.
Components:	
Ethanol	Based on available data, the classification criteria are not met.
Methanol	No data available.
Reproductive toxicity	
Product:	Suspected of damaging fertility or the unborn child.
Components: Ethanol	Based on available data, the classification criteria are not met.
Methanol	No data available.
Methanol	
Specific Target Organ Toxic	
Product:	Causes damage to organs.
Components:	
Ethanol	Based on available data, the classification criteria are not met.
Methanol	Oral: Nervous System - Causes damage to organs.
Specific Target Organ Toxic	ity - Repeated Exposure
Product:	Category 2
Components:	
Ethanol	Based on available data, the classification criteria are not met.
Methanol	No data available.
Aspiration Hazard	
Product:	No data available.
Components:	
Ethanol	No data available.
Methanol	No data available.
Information on health hazards	6
Other hazards	.
Product:	No data available.

12. Ecological information



Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product: Components: Ethanol Methanol	No data on possible environmental effects have been found. LC 50 (Fathead Minnow, 96 h): 14,200 mg/l LC 50 (Fathead Minnow, 96 h): 15,300 mg/l LC 50 (Oncorhynchus mykiss, 24 h): 11,200 mg/l Experimental result, Supporting study LC 50 (Pimephales promelas, 96 h): 29,400 mg/l EC 50 (Pimephales promelas, 96 h): 28,900 mg/l Experimental result, Supporting study LC 50 (Pimephales promelas, 48 h): 28,400 mg/l Experimental result, Supporting study LC 50 (Pimephales promelas, 96 h): 28,100 mg/l Experimental result, Supporting study LC 50 (Pimephales promelas, 96 h): 28,100 mg/l Experimental result, Supporting study LC 50 (Trachinotus carolinus, 24 h): 10,112 mg/l Experimental result, Supporting study
Aquatic Invertebrates	
Product:	No data on possible environmental effects have been found.
Components:	
Ethanol	LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 5,012 mg/l LC 50 (Grass shrimp,freshwater prawn (Palaemonetes kadiakensis), 18 h): 10,100 mg/l LC 50 (Grass shrimp,freshwater prawn (Palaemonetes kadiakensis), 96 h): > 250 mg/l Mortality
Methanol	No data available.
Toxicity to Aquatic Plants	
Product:	No data available.
Components:	
Ethanol	EC 50 (Green algae (Chlorella vulgaris), 72 h): 275 mg/l
Methanol	No data available.
Toxicity to microorganisms	
Product:	No data available.
Components:	
Ethanol	LC 50 (Turbellarian, flatworm (Dugesia tigrina), 96 h): > 100 mg/l
Methanol	Mortality LC 50 (Turbellarian, flatworm (Dugesia tigrina), 96 h): > 100 mg/l Mortality
Chronic hazards to the aqua	atic environment:
Fish	
Product:	No data on possible environmental effects have been found.
Components:	
Ethanol	No data available.
Methanol	No data available.

Aquatic Invertebrates



Product: Components:	No data on possible environmental effects have been found.
Ethanol	EC10 (Water flea (Daphnia magna), 10 d): 454 mg/l
Methanol	NOEC (Water flea (Daphnia magna), 10 d): 9.6 mg/l No data available.
Toxicity to Aquatic Plants	
Product:	No data available.
Components:	.
Ethanol	No data available.
Methanol	No data available.
Toxicity to microorganisms	
Product:	No data available.
Components:	
Ethanol	LC 50 (Turbellarian, flatworm (Dugesia tigrina), 96 h): > 100 mg/l
2.101101	Mortality
Methanol	LC 50 (Turbellarian, flatworm (Dugesia tigrina), 96 h): > 100 mg/l Mortality
Persistence and Degradability	
Piedegradation	
Biodegradation Product:	Expected to be readily biodegradable.
Components:	Expected to be readily biodegradable.
Ethanol	Readily biodegradable
	13.6 % (5 d) Soil Read-across from supporting substance (structural
	analogue or surrogate), Supporting study
	89 % (14 d) Detected in water. Experimental result, Supporting study
	53.4 % (5 d) Soil Read-across from supporting substance (structural
	analogue or surrogate), Supporting study
	46.3 % (5 d) Soil Read-across from supporting substance (structural
	analogue or surrogate), Supporting study
Methanol	84 % Experimental result, Key study Detected in water.
	46.3 % (5 d) Experimental result, Supporting study Soil
	69 % Experimental result, Key study Detected in water.
	71.5 % (5 d) Experimental result, Key study Detected in water.
	82.7 % (5 d) Experimental result, Key study Detected in water.
BOD/COD Ratio	
Product:	No data available.
Components:	
Ethanol	No data available.
Methanol	No data available.
Bioaccumulative potential	
Bioconcentration Factor (BC	•
Product:	No data available.
Components:	Detential to bioggoumulate is low
Ethanol Methanol	Potential to bioaccumulate is low.
IVIELI I II IUI	Green algae (Chlorella fusca vacuolata), Bioconcentration Factor (BCF): 28,400 (Static)



Partition Coefficient n-octanol / water (log Kow)

o data available.
g Kow: -0.77

Mobility in soil:

Product Components:	No data available.
Ethanol	soil - Very mobile liquid
Methanol	No data available.

Results of PBT and vPvB assessment:

Product Components:	No data available.
Ethanol	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria Not fulfilling vPvB (very persistent/very bioaccummulative) criteria
Methanol	No data available.

Other adverse effects:

Other hazards	
Product:	These materials have not been tested for environmental effects.

13. Disposal considerations

General information:	Dispose of waste and residues in accordance with local authority requirements. This product is highly flammable. Don't use fire to cut empty container after use.
Disposal methods:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Contaminated Packaging:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.



14. Transport information International regulations

ΙΑΤΑ	
UN number or ID number:	UN 1993
Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S.
Transport Hazard Class(es): Class:	3
Label(s):	3
Packing Group:	
Environmental Hazards	
Marine Pollutant:	No
Limited quantity	
Special precautions for user:	-
Other information	Allowed.
Passenger and cargo aircraft:	Allowed.
Cargo aircraft only:	Allowed.
IMDG	
UN number or ID number:	UN 1993
UN Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S.
Transport Hazard Class(es) Class:	2
Label(s):	3 3
EmS No.:	Б F-E, S-E
Packing Group:	
Environmental Hazards	
Marine Pollutant:	No
Limited quantity	5.00L
Special precautions for user:	-

Transport in bulk according to Annex II of MARPOL and the IBC Code Not applicable

15. Regulatory information

Classified according to the criteria in the Hazardous Substances (Minimum Degrees of Hazard) regulation 2001 Classified according to NZS 5433:1999, UN, IMDG, and IATA.

Ozone Depleting Substances Not Regulated

New Zealand. CWC. Chemical Weapons (Prohibition) Act 1996 (Schedules of Chemicals 1-3) Not Regulated

International regulations



Montreal protocol Not applicable

Stockholm convention

Not applicable

Rotterdam convention Not applicable

Kyoto protocol Not applicable

16.Other Information Issue Date: 15.07.2022 **Revision Date:** No data available.No data available. Version #: 3.1 **Further Information:** No data available. **References:** No data available. Disclaimer Disclaimer: The information contained herein has been obtained from various sources and is believed to be correct as of the date issued. However, neither BD nor any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability for a particular use of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. BD provides SDS in electronic form so the information may be more easily accessed. Due to the possibility of errors during transmission, BD makes no representations as to the completeness or accuracy of the information.