Version: 1.0

Date of preparation: 07 December 2020



SAFETY DATA SHEET

BETZDEARBORN AE1115P

1. Identification

Product identifier BETZDEARBORN AE1115P

Other means of identification None.

Recommended use of the chemical and restrictions on use

Restrictions on use Flocculant Industrial usage.

Company/undertaking identification

SUEZ WATER TECHNOLOGIES & SOLUTIONS PTY

LIMITED

103 Raubers Road, Northgate, QLD 4013 Australia Level 6, 63 Albert Street, Auckland, 1010, New Zealand

Tel: 1800 064 140 (AUS) 0800 945635 (NZ)

Emergency telephone

+61-290372994 (Aust) +64-98010034 (NZ)

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Not classified.

Health hazards Acute toxicity, inhalation Category 4

Aspiration hazard Category 1

Environmental hazards Not classified.

Label elements, including precautionary statements

Hazard symbol(s)



Health hazard

Exclamation mark

Signal word Danger

Hazard statement(s) May be fatal if swallowed and enters airways. Harmful if inhaled.

Precautionary statement(s)

Prevention Avoid breathing vapors. Use only outdoors or in a well-ventilated area.

Response IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce

vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards which do not

result in classification

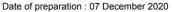
Combustible.

Supplemental information Repeated exposure may cause skin dryness or cracking.

3. Composition/information on ingredients

Mixtures







BETZDEARBORN AE1115P

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Distillates (petroleum), hydrotreated light	64742-47-8	20 - < 30

4. First-aid measures

Description of necessary first aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Aspiration may cause pulmonary edema and pneumonitis.

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without

Alcohol resistant foam. Powder. Dry chemicals. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

advice from poison control center. If vomiting occurs, keep head low so that stomach content

doesn't get into the lungs.

Personal protection for first-aid

responders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves.

Symptoms caused by exposure

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

Special protective equipment and precautions for fire

and precautions for fighters

......

Fire fighting equipment/instructions

equipment/mstructions

Hazchem code None.

General fire hazardsCombustible. No unusual fire or explosion hazards noted.

Specific methodsUse standard firefighting procedures and consider the hazards of other involved materials.

During fire, gases hazardous to health may be formed.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Cool containers exposed to heat with water spray and remove container, if no risk is involved.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

Environmental precautions

Methods and materials for containment and cleaning up

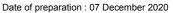
Avoid discharge into drains, water courses or onto the ground. Use water spray to reduce vapors or divert vapor cloud drift.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.







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7. Handling and storage

Precautions for safe handling Avoid prolonged or repeated contact with skin. Use only outdoors or in a well-ventilated area.

Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe

good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat and sources of ignition. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the

SDS).

8. Exposure controls and personal protection

Control parameters Follow standard monitoring procedures. No exposure limits noted for ingredient(s). Occupational exposure limits

No biological exposure limits noted for the ingredient(s). **Biological limit values**

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, for example personal protective equipment (PPE)

Eye/face protection Chemical goggles are recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Always observe good personal hygiene measures, such as washing after handling the material Hygiene measures

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

9. Physical and chemical properties

Appearance Emulsion Physical state Liquid. **Form** Liquid.

Color White to off-white Odor Slight hydrocarbon **Odor threshold** Not available. 7 (1% SOL.) pH in aqueous solution < -5 °C Melting point/freezing point Initial boiling point and boiling

range

Not available.

> 93 °C SETA(CC) Flash point **Evaporation rate** < 1 (Ether = 1) Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Not available. Flammability limit - lower

(%)

Not available.

1.02

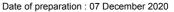
Flammability limit - upper

Explosive limit - lower (%) Not available. Not available. Explosive limit - upper (%) Vapor pressure 18 mm Hg 21 °C Vapor pressure temp.

Vapor density < 1 (Air = 1)

Relative density







BETZDEARBORN AE1115P

Relative density temperature

Solubility(ies)

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.Viscosity640 cpsViscosity temperature21 °C

Other physical and chemical parameters

Explosive properties

Oxidizing properties

Not explosive.

Not oxidizing.

7 (1% SOL.)

Pour point

<-2 °C

Specific gravity

1.019

VOC 22.4 % (Estimated)

10. Stability and reactivity

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

21 °C

reactions

Conditions to avoid Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid

temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

Toxic gas.

11. Toxicological information

Information on possible routes of exposure

Inhalation Harmful if inhaled.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to exposure Aspiration may cause pulmonary edema and pneumonitis.

Acute toxicity May be fatal if swallowed and enters airways. Harmful if inhaled.

Product Species Test Results

BETZDEARBORN AE1115P (CAS Mixture)

AcuteDermal

LD50 Rabbit > 5000 mg/kg, (Calculated according to

GHS additivity formula)

Inhalation

LC50 Rat > 20 mg/L, 4 Hour, (Calculated according

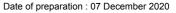
to GHS additivity formula)

Oral

LD50 Rat > 5000 mg/kg, (Calculated according to

GHS additivity formula)







BETZDEARBORN AE1115P

Components	Species	Test Results		
Distillates (petroleum), hydrotreated light (CAS 64742-47-8)				
Acute				
Dermal				
LD50	Rabbit	> 2000 mg/kg		
Inhalation				
LC50	Rat	> 5.2 mg/l, 4 Hour		
Oral				
LD50	Rat	> 5000 mg/kg		
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.			
Serious eye damage/irritation	Direct contact with eyes may cause temporary irritation.			
Respiratory or skin sensitization	1			
Respiratory sensitization	Not a respiratory sensitizer. This product is not expected to cause respiratory sensitization.			
Skin sensitization	This product is not expected to cause skin sensitization.			
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	Not available.			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.			
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classified.			

12. Ecological information

Aspiration hazard

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the
-	possibility that large or frequent spills can have a harmful or damaging effect on the environment.

May be fatal if swallowed and enters airways.

Product		Species	Test Results
BETZDEARBORN AE1118	5P (CAS Mixture)		
Aquatic			
Crustacea	5% Mortality	Daphnia magna	1.6 mg/L, Static Renewal Bioassay, 48 hour
	LC50	Daphnia magna	3.9 mg/L, Static Renewal Bioassay, 48 hour
Fish	25% Mortality	Fathead Minnow	15.6 mg/L, Static Renewal Bioassay, 96 hour
	LC50	Bluegill Sunfish	89.5 mg/L, Static Acute Bioassay, 96 hour
		Fathead Minnow	25.8 mg/L, Static Renewal Bioassay, 96 hour
		Rainbow Trout	75.2 mg/L, Static Acute Bioassay, 96 hour
	NOEL	Bluegill Sunfish	18 mg/L, Static Acute Bioassay, 96 hour
		Rainbow Trout	10 mg/L, Static Acute Bioassay, 96 hour
	_		

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Distillates (petroleum), hydrotreated light 3 - 6

Bioconcentration factor

(BCF)

Distillates (petroleum), hydrotreated light 207.7



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Mobility in soil No data available for this product.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation

potential.

Environmental fate The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

COD (mgO2/g)
 TOC (mg C/g)
 1270 (calculated data)
 510 (calculated data)

13. Disposal considerations

Disposal methods Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

ADG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

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

Annex II of MARPOL 73/78 at the IBC Code

Not established.

15. Regulatory information

Safety, health and environmental regulations

National regulations Group Standard - Water treatment chemicals - Subsidiary hazard HSR002684

This Safety Data Sheet was prepared in accordance with Australia Model Code of Practice for the

preparation of Safety Data Sheets for Hazardous Chemicals (May 2018).

Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated. **Australia Medicines & Poisons Appendix G**

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.







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Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 10

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

Australia Medicines & Poisons Schedule 6

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)

Distillates (petroleum), hydrotreated light (CAS 64742-47-8)

1000 - $9999\ \mbox{TONNES}$ See the regulation for additional information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed.

National Pollutant Inventory (NPI) substance reporting list Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed.

Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

Montreal Protocol

Not applicable.

Basel Convention

Not applicable.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes





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Country(s) or region Inventory name On inventory (yes/no)*

Europe European Inventory of Existing Commercial Chemical

Substances (EINECS)

European List of Notified Chemical Substances (ELINCS) Europe No Inventory of Existing and New Chemical Substances (ENCS) Japan No Korea Existing Chemicals List (ECL) Yes

New Zealand New Zealand Inventory Yes Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

Taiwan Taiwan Chemical Substance Inventory (TCSI) No United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

16. Other information

07-December-2020 Issue date

Revision date 07/12/2020 No data available References:

Disclaimer 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.

Revision information Composition / Information on Ingredients: Disclosure Overrides

Physical & Chemical Properties: Multiple Properties Toxicological Information: Toxicological Data

Transport Information: Material Transportation Information

HazReg Data: Pacific Rim GHS: Classification



Product: BETZDEARBORN AE1115P - Page 8 of 8

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

^{*} Trademark of SUEZ. May be registered in one or more countries.