Solenis, Strong bonds. Trusled solutions	Page: 1
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/23/2015
	SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588	Version: 1.2

29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name

: Advantage Plus™ 1455

deposit inhibitor

™ Trademark, Solenis or its subsidiaries or affiliates,

registered in various countries

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data	Emergency telephone number
sheet	1-844-SOLENIS (844-765-3647) / 606-329-5705
Solenis LLC	
500 Hercules Road	Product Information
Wilmington Delaware 19808	1-844-SOLENIS (844-765-3647)
United States of America	
RegulatoryRequestsNA@solenis.com	

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation

: Category 2

Eye irritation

: Category 2A

GHS Label element

Hazard pictograms



Signal Word

: Warning

Hazard Statements

Causes skin irritation.

Causes serious eye irritation.

Precautionary Statements

Prevention:

Wash skin thoroughly after handling. Wear eye protection/ face protection.

Wear protective gloves.

Response:

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes.

SOLENIS. Strong points Trusted solutions		Page: 2
SAFETY DATA SHEET		Revision Date: 05/23/2015
	T	Print Date: 6/23/2015
		SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588		Version: 1.2

Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash before reuse.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
ORGANIC ACID SALT	254504001-6208	Acute Tox. 4; H302	>= 5.00 - < 10.00
		Acute Tox. 4; H332	
		Eye Irrit. 2A; H319	
		STOT RE 2; H373	
ACRYLIC POLYMER	254504001-5001	Eye Irrit. 2A; H319	>= 1.50 - < 5.00

Trade Secret Composition - Conceal the Identity + Concentration

SODIUM HYDROXIDE	1310-73-2	Met. Corr. 1; H290	>= 1.50 - < 5.00
		Skin Corr. 1; H314	
		Eye Dam. 1; H318	
POLY(ETHYLENE-PROPYLENE) GLYCOL, BUTOXY-	9038-95-3	Not a hazardous substance or mixture.	>= 1.00 - < 1.50

Trade Secret Composition - Conceal the Identity + Concentration

SECTION 4. FIRST AID MEASURES

General advice

: Move out of dangerous area.

Consult a physician.

SOLENIS., Strang bonds, Trusted solutions	Page: 3
SAFETY DATA SHEET	Revision Date: 05/23/2015
•	Print Date: 6/23/2015
	SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588	Version: 1.2

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled

If breathed in, move person into fresh air.

If unconscious place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact

: Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

In case of eye contact

In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Continue rinsing eyes during transport to hospital.

Remove contact lenses. Protect unharmed eye.

If swallowed

Obtain medical attention.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and

delayed

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through

the skin may include:

stomach or intestinal upset (nausea, vomiting, diarrhea)

irritation (nose, throat, airways)

Cough

lung edema (fluid buildup in the lung tissue)

Difficulty in breathing Causes skin irritation. Causes serious eye irritation.

Notes to physician

: No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Water spray Foam

Carbon dioxide (CO2)

Dry chemical

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during

: Do not allow run-off from fire fighting to enter drains or water

SOLENIS. Strong bonds Trusted solutions	Page: 4
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/23/2015
	SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588	Version: 1.2

firefighting

courses.

Hazardous combustion products

: carbon dioxide and carbon monoxide

Ammonia toxic fumes

Nitrogen oxides (NOx) Oxides of phosphorus corrosive vapors Sodium oxides

sulfur dioxide

Specific extinguishing

methods

Product is compatible with standard fire-fighting agents.

Further information

: Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

for firefighters

Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.

Persons not wearing protective equipment should be excluded

from area of spill until clean-up has been completed.

Environmental precautions

: Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

Other information

: Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling

: Do not breathe vapours/dust.

Container hazardous when empty. Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the

application area.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

SOLENIS. Strang bonds Trusted solutions	Page: 5
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/23/2015
	SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588	Version: 1.2

Conditions for safe storage

: Keep container tightly closed in a dry and well-ventilated

place.

Electrical installations / working materials must comply with

the technological safety standards.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ALKALINE	254504001- 6301	Ceiling	2 mg/m3	PY OEL
		Ceiling	2 mg/m3	ACGIH
		Ceil_Time	2 mg/m3	NIOSH/GUID E
		PEL	2 mg/m3	OSHA_TRA NS
		Ceiling	2 mg/m3	TN OEL
POLYALKYLENE GLYCOL	254504001- 5000	ST ESL	50 μg/m3 Particulate.	TX ESL
	2	ST ESL	1,000 µg/m3 Vapor.	TX ESL
		AN ESL	5 μg/m3 Particulate.	TX ESL
		AN ESL	100 μg/m3 Vapor.	TX ESL

Engineering measures

 Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Hand protection

Remarks

: The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection

: Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or

mist.

Maintain eye wash station in immediate work area.

Skin and body protection

Wear as appropriate: impervious clothing

Safety shoes

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear.

SOLENIS. Strong heads Trusted solutions	Page: 6
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/23/2015
	SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588	Version: 1.2

Wear resistant gloves (consult your safety equipment

supplier).

Hygiene measures

: Wash hands before breaks and at the end of workday.

When using do not eat or drink. When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state

: liquid

Colour

: clear

Odour

: No data available

Odour Threshold

: No data available

рΗ

No data available

Melting point/freezing point

: No data available

Boiling point/boiling range

: No data available

Flash point

: Not applicable

Evaporation rate

: No data available

Flammability (solid, gas)

: No data available

Upper explosion limit

: No data available

Lower explosion limit

: No data available

Vapour pressure

: No data available

Relative vapour density

: No data available

Relative density

: No data available

Density

: 1.140 g/cm3 (25 °C)

Solubility(ies)

Water solubility

: No data available

Solubility in other solvents

: No data available

Partition coefficient: n-

octanol/water

: No data available

Thermal decomposition

: No data available

Strong bonds Trusled solutions	Page: 7
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/23/2015
	SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588	Version: 1.2

Viscosity

Viscosity, dynamic

: No data available

Viscosity, kinematic

: No data available

Oxidizing properties

: No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No decomposition if stored and applied as directed.

Chemical stability

: Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid

excessive heat
 Exposure to sunlight.

Exposure to moisture

Incompatible materials

: Acids alkalis aluminum Copper Copper alloys

halogenated hydrocarbons

Metals Nickel nitrites

organic nitro compounds

Oxidizing agents

reactive metals such as aluminum and magnesium

steel Strong bases sulphites water Zinc

Hazardous decomposition

products

Alcohols

Aldehydes

carbon dioxide and carbon monoxide

corrosive vapors

ethers

Hydrocarbons

Nitrogen oxides (NOx)

Organic acids

Oxides of phosphorus

Sodium oxides Sulphur oxides toxic fumes

Strong bonds Trusted solutions	Page: 8
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/23/2015
	SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588	Version: 1.2

Ammonia ketones

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of :

exposure

Inhalation

Skin contact Eye Contact

Ingestion

Acute toxicity

Not classified based on available information.

Components:

ORGANIC ACID SALT:

Acute oral toxicity

: LD 50 (Rat, Female): 1,780 mg/kg

Acute inhalation toxicity

: LC50 (Rat): > 1 - 5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Remarks: Information given is based on data obtained from

similar substances.

Acute dermal toxicity

: LD 50 (Rabbit): > 5,000 mg/kg

Components:

SODIUM HYDROXIDE:

Acute oral toxicity

: LD Lo (Rabbit): 500 mg/kg

POLY(ETHYLENE-PROPYLENE) GLYCOL, BUTOXY-:

Acute oral toxicity

: LD 50 (Rat): > 5 g/kg

Acute inhalation toxicity

: LC 50 (Rat): 147 g/m3

Exposure time: 4 h

Acute dermal toxicity

: LD 50 (Rabbit): > 2 g/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:

ORGANIC ACID SALT:

Species: Rabbit

Result: Not irritating to skin

ACRYLIC POLYMER:

Result: Not irritating to skin

Solenis, Strong bonds Trusted solutions	Page: 9
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/23/2015
	SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588	Version: 1.2

Components:

SODIUM HYDROXIDE: Result: Corrosive to skin

POLY(ETHYLENE-PROPYLENE) GLYCOL, BUTOXY-:

Result: Mildly irritating to skin

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: May cause irreversible eye damage.

Components:

ORGANIC ACID SALT:

Result: Severely irritating to eyes

ACRYLIC POLYMER: Result: Irritating to eyes

Components:

SODIUM HYDROXIDE: Result: Corrosive to eyes

POLY(ETHYLENE-PROPYLENE) GLYCOL, BUTOXY-:

Result: Mildly irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components:

ORGANIC ACID SALT:

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Assessment: Does not cause skin sensitisation.

Method: OECD Test Guideline 406

Germ cell mutagenicity

Not classified based on available information.

Components:

ORGANIC ACID SALT:

Genotoxicity in vitro

: Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STorg bonds Trusted solutions.	Page: 10
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/23/2015
	SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588	Version: 1.2

STOT - repeated exposure

Not classified based on available information.

Components:

ORGANIC ACID SALT: Exposure routes: Inhalation Target Organs: Respiratory Tract

Assessment: The substance or mixture is classified as specific target organ toxicant, repeated

exposure, category 2.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

Carcinogenicity:

IARC

No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA

No component of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP

No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish

: LC 50 (Oncorhynchus mykiss (rainbow trout)): 1,768 mg/l

Exposure time: 96 h Test Type: static test

LC 50 (Pimephales promelas (fathead minnow)): 1,650 mg/l

Exposure time: 96 h Test Type: static test

aquatic invertebrates

Toxicity to daphnia and other : LC 50 (Water flea (Ceriodaphnia dubia)): 1,708 mg/l

Exposure time: 48 h

Test Type: static test

Components:

ORGANIC ACID SALT:

Toxicity to fish

: LC 50 (Bluegill (Lepomis macrochirus)): 792 mg/l

Exposure time: 96 h

SOLENIS., Strong bonds. Trusted solutions	Page: 11
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/23/2015
	SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588	Version: 1.2

aquatic invertebrates

Toxicity to daphnia and other : EC 50 (Water flea (Daphnia magna)): 140 mg/l

Exposure time: 48 h

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to algae

: NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l

End point: Growth inhibition

Exposure time: 72 h Test Type: static test

Method: Directive 67/548/EEC, Annex V, C.3.

Toxicity to fish (Chronic

toxicity)

: NOEC (Danio rerio (zebra fish)): >= 25.7 mg/l

Exposure time: 35 d

Test Type: flow-through test Method: OECD Test Guideline 210

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 25 mg/l

Exposure time: 21 d Test Type: semi-static test

Remarks: Information given is based on data obtained from

similar substances.

SODIUM HYDROXIDE:

Toxicity to fish

: LC 50 (Western mosquitofish (Gambusia affinis)): 125 mg/l

Exposure time: 96 h Method: Static Remarks: Mortality

Toxicity to daphnia and other

aquatic invertebrates

: EC 50 (Water flea (Daphnia magna)): 34.59 - 47.13 mg/l

Exposure time: 48 h Remarks: Intoxication

Persistence and degradability

Components:

ORGANIC ACID SALT:

Biodegradability

: Result: Not readily biodegradable.

Biodegradation: < 10 %

Exposure time: 28 d

Method: OECD Test Guideline 301E

Biodegradation: 90 - 100 %

Exposure time: 72 d

Method: OECD Test Guideline 301E

Bioaccumulative potential

Components:

ORGANIC ACID SALT:

Strang bonds Trusted Solutions	Page: 12
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/23/2015
	SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588	Version: 1.2

Partition coefficient: n-

: log Pow: < 3

octanol/water

Mobility in soil

Components: No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: No data available

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice

: Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging

: Empty remaining contents.

Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

INCOULATION						
ID NUMBER	PROPER SHIPPING NAME	*HAZARD	SUBSIDIARY	PACKING	MARINE	
		CLASS	HAZARDS	GROUP	POLLUTANT /	
					LTD. QTY.	

U.S. DOT - ROAD

UN	3266	Corrosive liquid, basic,	8	III	
		inorganic, n.o.s.			
		(TETRASODIUM			
		ÈTHYLENEDIAMINETETRAAC			
		ETATE, SODIUM			
		HYDROXIDE)			

% 5	OLG	?NIS.		Page: 13
	Strong bonds 1	nusted solutions. ATA SHEET		Revision Date: 05/23/2015
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	ed in var	ious countries		
100588				
- '				
J.S. DOT				
UN	3266	Corrosive liquid, basic,	8	III
		inorganic, n.o.s.		
		(TETRASODIUM ETHYLENEDIAMINETETRAAC		
		ETATE, SODIUM		
		HYDROXIDE)		
I.S. DOT	- INI AI	ND WATERWAYS		
UN	3266	Corrosive liquid, basic,	8	III
		inorganic, n.o.s.		
		(TETRASODIUM		
		ETHYLENEDIAMINETETRAAC		
		ETATE, SODIUM HYDROXIDE)		
		THEROADLY		
DANCO		NADA DOAD		
UN	3266	NADA - ROAD CORROSIVE LIQUID, BASIC,	8	· III
	0200	INORGANIC, N.O.S.	Ü	tii
		(TETRASODIUM		
		ETHYLENEDIAMINETETRAAC		
		ETATE, SODIUM		
	<u> </u>	HYDROXIDE)		
RANSPO UN	ORT CA 3266	NADA - RAIL CORROSIVE LIQUID, BASIC,	8	· III
UIV	3200	INORGANIC, N.O.S.	O	
		(TETRASODIUM		
		ETHYLENEDIAMINETETRAAC		
		ETATE, SODIUM		
		HYDROXIDE)		
		NADA - INLAND WATERWAYS		
UN	3266	CORROSIVE LIQUID, BASIC,	8	III
		INORGANIC, N.O.S. (TETRASODIUM		
		(TETRASODIUM ETHYLENEDIAMINETETRAAC		
		ETATE, SODIUM		

INTERNATIONAL MARITIME DANGEROUS GOODS

*		nis.		
SAFET	Y DA	ATA SHEET		Revision Date: 05/23/2015
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™ Tradem	nark, S	olenis or its subsidiaries or affiliat	es,	Version. 1.2
UN 3	3266	CORROSIVE LIQUID, BASIC,	8	III
		INORGANIC, N.O.S. (TETRASODIUM ETHYLENEDIAMINETETRAAC ETATE, SODIUM HYDROXIDE)	;	
	IONAL 3266	. AIR TRANSPORT ASSOCIATI Corrosive liquid, basic,	<u>ON - C.</u> 8	ARGO III
		inorganic, n.o.s. (TETRASODIUM ETHYLENEDIAMINETETRAAC	· ·	
		ETATE, SODIUM HYDROXIDE)		
	10NAL 3266	. AIR TRANSPORT ASSOCIATI Corrosive liquid, basic,	<u>ON - P</u> 8	ASSENGER III
ON .	3200	inorganic, n.o.s. (TETRASODIUM ETHYLENEDIAMINETETRAAC ETATE, SODIUM HYDROXIDE)		
		THUROXIDE)		
IEXICAN I	REGU	LATION FOR THE LAND TRAN	SPORT	OF HAZARDOUS MATERIALS AND
	3266	LIQUIDO CORROSIVO, BASICO, INORGANICO, N.E.F	8	III
		(TETRASODIUM ETHYLENEDIAMINETETRAAC ETATE, SODIUM HYDROXIDE)		
		•		
	······	CBL = COMBUSTIBLE LIQUID		
Mari	ne poll	utant no		
	ns that			not reflect quantity, end-use or region-specific nents for descriptions that are specific to the
SECTION	N 15. R	EGULATORY INFORMATION		
EDC	.DV =	imergency Planning and Comm	arpaiés !	Pight-to-Know Act
EPU		mergency Planning and Comn Reportable Quantity	rurnty :	Night-to-Milow Act

SOLENIS Strong bands. Trusted solutions	Page: 15
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/23/2015 SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588	Version: 1.2

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
SODIUM HYDROXIDE	1310-73-2	1000	33928.207912

SARA 311/312 Hazards

: Acute Health Hazard

SARA 313

Component(s)SARA 313

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis)

reporting levels established by SARA Title III, Section 313.

California Prop 65

Proposition 65 warnings are not required for this product

based on the results of a risk assessment.

The components of this product are reported in the following inventories:

TSCA

: On TSCA Inventory

DSL

: All components of this product are on the Canadian DSL.

AUSTR

: On the inventory, or in compliance with the inventory

NZIOC

: On the inventory, or in compliance with the inventory

ENCS

: Not in compliance with the inventory

KECL

: On the inventory, or in compliance with the inventory

PHIL

: On the inventory, or in compliance with the inventory

IECSC

: On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIOC (New Zealand), PICCS (Philippines), TSCA (USA)

Registration: Trade Secret

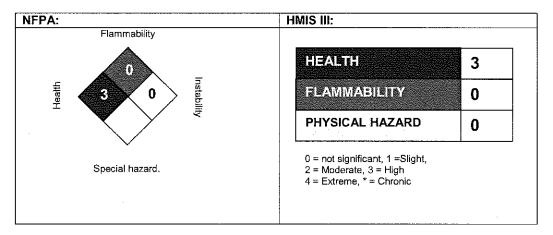
Chemical Name	Identification number
ORGANIC ACID SALT	254504001-6208
ACRYLIC POLYMER	254504001-5001

SOLENIS. Strong bonds Trusted solutions	Page: 16
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/23/2015
	SDS Number: R0401625
Advantage Plus™ 1455 deposit inhibitor ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 100588	Version: 1.2

SECTION 16. OTHER INFORMATION

Further information

Revision Date: 05/23/2015



NFPA Flammable and Combustible Liquids Classification

Not applicable

Full text of H-Statements referred to under sections 2 and 3.

H290	May be corrosive to metals.	
H302	Harmful if swallowed.	
H314	Causes severe skin burns and eye damage.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.	

Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SOLENIS internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by the Solenis Environmental Health and Safety Department.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

SOLENIS. Strong bonds. Trusled adultions	Page: 17
SAFETY DATA SHEET	Revision Date: 05/23/2015
	Print Date: 6/23/2015
	SDS Number: R0401625
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ACGIH: American Conference of Industrial Hygienists

BEI: Biological Exposure Index

CAS: Chemical Abstracts Service (Division of the American Chemical Society).

CMR: Carcinogenic, Mutagenic or Toxic for Reproduction

FG: Food grade

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement: Hazard Statement

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA),

ICAO: International Civil Aviation Organization

ICAO-TI (ICAO): Technical Instructions by the "International Civil Aviation Organization"

IMDG: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

logPow: octanol-water partition coefficient

LCxx: Lethal Concentration, for xx percent of test population

LDxx: Lethal Dose, for xx percent of test population. ICxx: Inhibitory Concentration for xx of a substance

Ecxx: Effective Concentration of xx N.O.S.: Not Otherwise Specified

OECD: Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit P-Statement : Precautionary Statement PBT : Persistent , Bioaccumulative and Toxic

PPE: Personal Protective Equipment STEL: Short-term exposure limit STOT: Specific Target Organ Toxicity

TLV: Threshold Limit Value TWA: Time-weighted average

vPvB: Very Persistent and Very Bioaccumulative

WEL: Workplace Exposure Level

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

DOT: Department of Transportation

FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act HMIRC: Hazardous Materials Information Review Commission

HMIS: Hazardous Materials Identification System NFPA: National Fire Protection Association

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety and Health Administration

PMRA: Health Canada Pest Management Regulatory Agency

RTK: Right to Know

WHMIS: Workplace Hazardous Materials Information System