

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 06/30/2023

SDS Number: R0189262

Version: 1.7

Chargepac™ 55 COAGULANT

™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
67553

SECTION 1. IDENTIFICATION

Product identifier

Trade name : Chargepac™ 55
COAGULANT

™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Industrial chemical

<p>Details of the supplier of the safety data sheet</p> <p>Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA)</p> <p>EHSProductSafetyTeam@solenis.com</p>	<p>Emergency telephone number 1-844-SOLENIS (844-765-3647)</p> <p>Product Information Contact your local Solenis representative</p>
---	---

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

GHS label elements

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (%)
ALUMINUM SALT	Trade Secret	This material is not considered hazardous under the OSHA Hazard	>= 50 - < 60

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 06/30/2023

SDS Number: R0189262

Version: 1.7

Chargepac™ 55 COAGULANT

™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
67553

	Communication Standard (HazCom 2012).	
--	---------------------------------------	--

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

- General advice : No hazards which require special first aid measures.
- 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 : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Remove contact lenses.
Protect unharmed eye.
- If swallowed : 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 : No symptoms known or expected.
- 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
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Chlorine compounds
aluminum oxides
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 06/30/2023

SDS Number: R0189262

Version: 1.7

Chargepac™ 55 COAGULANT

™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
67553

Further information : Standard procedure for chemical fires.

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Comply with all applicable federal, state, and local regulations.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

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

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.

Conditions for safe storage : Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ALUMINUM SALT	Trade Secret	TWA	2 mg/m ³ (Aluminium)	OSHA P0
		TWA	2 mg/m ³ (Aluminium)	NIOSH REL

Engineering measures : General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 06/30/2023

SDS Number: R0189262

Version: 1.7

Chargepac™ 55 COAGULANT
 ™ Trademark, Solenis or its subsidiaries or affiliates,
 registered in various countries
 67553

exist, 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

- | | |
|--------------------------|--|
| Respiratory protection | : No personal respiratory protective equipment normally required. |
| Eye protection | : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes. |
| Skin and body protection | : Wear as appropriate:
Safety shoes
Wear resistant gloves (consult your safety equipment supplier). |
| Hygiene measures | : General industrial hygiene practice. |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- | | |
|--|-------------------------------------|
| Appearance | : liquid |
| Colour | : colourless, light yellow |
| Odour | : oily |
| Odour Threshold | : No data available |
| pH | : ca. 4 |
| Melting point/freezing point | : 19 °F / -7 °C |
| Boiling point/boiling range | : ca. 230 °F / 110 °C
(1013 hPa) |
| Flash point | : Not applicable |
| Evaporation rate | : > 1
Ethyl Ether |
| Flammability (solid, gas) | : No data available |
| Self-ignition | : No data available |
| Upper explosion limit / Upper flammability limit | : No data available |

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 06/30/2023

SDS Number: R0189262

Version: 1.7

Chargepac™ 55 COAGULANT

™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
67553

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : < 17.50 mmHg (68.00 °F / 20.00 °C)

Relative vapour density : 0.6
AIR=1

Relative density : ca. 1.36 (77 °F / 25 °C)

Density : ca. 1.35 g/cm3

Solubility(ies)
Water solubility : hydrolyses

Solubility in other solvents : No data available

Partition coefficient: n-octanol/water : No data available

Decomposition temperature : No data available

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

Incompatible materials : Strong bases
Strong oxidizing agentsHazardous decomposition products : aluminum oxides
chlorine compounds

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 06/30/2023

SDS Number: R0189262

Version: 1.7

Chargepac™ 55 COAGULANT
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
67553

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Components:**ALUMINUM SALT:**

Acute oral toxicity : LD50 (Rat, female): 9,187 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

Skin corrosion/irritation

Not classified based on available information.

Components:**ALUMINUM SALT:**

Result : Not irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks : Unlikely to cause eye irritation or injury.

Components:**ALUMINUM SALT:**

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.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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 on OSHA's list of regulated carcinogens.

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 06/30/2023

SDS Number: R0189262

Version: 1.7

Chargepac™ 55 COAGULANT
 ™ Trademark, Solenis or its subsidiaries or affiliates,
 registered in various countries
 67553

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.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 707 mg/l
 Exposure time: 96 h
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): 20,728 mg/l
 Exposure time: 48 h
 Test Type: static test

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

Components:

ALUMINUM SALT:

Toxicity to fish : (Danio rerio (zebra fish)): 186 mg/l
 Exposure time: 96 h
 Test Type: static test

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 56.48 mg/l
 Exposure time: 7 d

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 06/30/2023

SDS Number: R0189262

Version: 1.7

Chargepac™ 55 COAGULANT
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
67553

Persistence and degradability**Product:**

Biochemical Oxygen Demand (BOD) : Biochemical oxygen demand within 5 days
26 mg/l

Chemical Oxygen Demand (COD) : 1,000 mg/l
Method: Chemical oxygen demand

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:**

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.

SECTION 14. TRANSPORT INFORMATION**International Regulations****IATA-DGR**

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

National Regulations**49 CFR**

Not regulated as a dangerous good

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 06/30/2023

SDS Number: R0189262

Version: 1.7

Chargepac™ 55 COAGULANT
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
67553

Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : No SARA Hazards

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

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

TCSI	: On the inventory, or in compliance with the inventory
AIIC	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
ENCS	: On the inventory, or in compliance with the inventory
KECI	: On the inventory, or in compliance with the inventory
PICCS	: On the inventory, or in compliance with the inventory
IECSC	: On the inventory, or in compliance with the inventory
TSCA	: All substances listed as active on the TSCA inventory
NZIOC	: On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 06/30/2023

SDS Number: R0189262

Version: 1.7

Chargepac™ 55 COAGULANT

™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
67553

SECTION 16. OTHER INFORMATION**Further information**

Revision Date : 08/22/2022

Full text of other abbreviations

NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	: 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

Sources of key data used to compile the Safety Data Sheet

Key literature references and sources of data

SOLENIS Internal data

SAFETY DATA SHEET

Revision Date: 08/22/2022

Print Date: 06/30/2023

SDS Number: R0189262

Version: 1.7

Chargepac™ 55 COAGULANT

™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
67553

SOLENIS internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for
labelling (GHS) and transport.

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. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

US / EN