SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: X-Celerate
PRODUCT IDENTIFIER CODE(S): 109087
PRODUCT RECOMMENDED/INTENDED USE: Non-Ionic Wetting Agent
MANUFACTURER/SUPPLIER: Royal Oil Company
ADDRESS: 500 Airport Drive, Mansfield, TX 76063
GENERAL INFORMATION: 817-332-1161
24 HR. EMERGENCY PHONE NUMBER: CHEMTREC 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification(s):

Health	Physical	Environmental
Eye Irritant- Category 2A Skin Irritant- Category 3	No known physical hazards.	No known environmental hazards.

GHS Label:

Pictogram(s):	
Signal Word: **Warning!** ***Hazard Statements:*** Causes serious eye irritation. May cause skin irritation.	***Precautionary Statements:*** Avoid contact with eyes and skin. Wear protective gloves, clothing and eye/face protection. Wash hands thoroughly after handling. Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area. Keep out of reach of children. Dispose of contents and container in accordance with all federal, state and local regulations. ***Response:*** **FIRST AID: 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 immediate medical attention. **IF SKIN IRRITATION OCCURS:** Remove contaminated clothing and wash skin thoroughly with soap and water. If skin irritation persists, get medical attention. **IF SWALLOWED:** Do NOT induce vomiting. Rinse mouth and give large quantities of water if victim is conscious. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep airway open. Get immediate medical attention. **IF INHALED:** If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	Wt. %
Nonylphenol, ethoxylated	127087-87-0	15.0-25.0
Aqueous emulsion of polyorganosiloxanes, additives	Mixture	2.0-3.0
Non-hazardous components or components below reportable levels	N/A	70.0-80.0

*The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

PRINCIPAL ROUTES OF EXPOSURE: Eyes and skin
EFFECTS OF EXPOSURE (ACUTE AND CHRONIC): May cause skin irritation. However, brief contact is not known to be irritating. Contact with eyes may cause severe irritation with possible chemical burns of the eye. Ingestion may cause

abdominal discomfort, nausea, vomiting, and/or diarrhea. If directly inhaled, mist from this product may cause respiratory irritation, chest discomfort and/or coughing.
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 immediate medical attention.
IF SKIN IRRITATION OCCURS: Remove contaminated clothing and wash skin thoroughly with soap and water. If skin irritation persists, get medical attention.
IF SWALLOWED: Do NOT induce vomiting. Rinse mouth and give large quantities of water if victim is conscious. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep airway open. Get immediate medical attention.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.
NOTES TO PHYSICIAN: None.

SECTION 5 FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Use an extinguishing media appropriate for surrounding fire.
UNSUITABLE EXTINGUISHING MEDIA: Do not use water jet as an extinguisher, as this may spread and scatter the fire.
SPECIAL HAZARDS ARISING FROM THE CHEMICAL: During a fire, gases hazardous to health may be formed. Do not allow run-off from fire fighting to enter drains or water courses.
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
FIREFIGHTING EQUIPMENT/INSTRUCTIONS: Move containers from the fire area if you can do so without risk.
SPECIFIC METHODS: Use standard firefighting procedures and consider the hazards of other involved materials.
UNUSUAL FIRE AND EXPLOSION HAZARDS: No unusual fire or explosion hazards noted.
FURTHER INFORMATION: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during cleanup. Do not touch or walk through spilled material. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection refer to Section 8 of the SDS.
MATERIALS AND METHODS FOR CONTAINMENT AND CLEANUP: This product is miscible in water. This material contains a component that is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
Large Spills: Stop the flow of material, if this can be done without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into appropriate disposal containers. Following product recovery, flush area with water to remove residues.
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 reuse. For waste disposal, refer to Section 13 of the SDS.
ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground in large quantities. Inform appropriate managerial or supervisory personnel of all environmental releases.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid contact with eyes, skin and clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release into the environment in large quantities. Observe good industrial hygiene and safety practices.
STORAGE: Keep container tightly closed when not in use. Keep out of reach of children. Do not allow product to freeze. Store in a cool, dry, well-ventilated place. Store only in the original container. Recommended storage temperature is between 40-120°F.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS: Occupational exposure limits have not been established for this product as a whole. Occupational exposure limits have not been established for the ingredient(s).

BIOLOGICAL LIMIT VALUES: No biological exposure limits noted for the ingredient(s).
APPROPRIATE ENGINEERING CONTROLS: Use only in an outdoors or well-ventilated area. 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. Eyewash facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.
INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT
EYE/FACE PROTECTION: Wear chemical goggles and face shield. Avoid contact with eyes. Provide an emergency eyewash fountain and quick drench shower in immediate work areas.
HAND PROTECTION: Wear appropriate chemical resistant gloves.
BODY PROTECTION: Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other items such as chemical resistant boots are recommended.
RESPIRATORY PROTECTION: In case of insufficient ventilation, wear suitable respiratory equipment. Chemical respirator with organic vapor cartridge.
GENERAL HYGIENE CONSIDERATIONS: Keep away from food and drink. Always observe good personal hygiene practices, such as washing after handling the material and before eating, drinking, smoking and using toilet facilities. Routinely wash work clothing and protective equipment to remove contaminants. Wash contaminated clothing before reuse. Discard contaminated shoes that cannot be cleaned.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE (Color and physical state): Green liquid
ODOR: Slight detergent odor
ODOR THRESHOLD: Not determined
pH: 9.0-10.0 (Concentrate)
MELTING POINT/FREEZING POINT: Freezing point = 32°F (as water)
BOILING POINT (^{O}F/C): >210/99
FLASH POINT (^{O}F/C): None
EVAPORATION RATE (Butyl Acetate =1): Not determined
FLAMMABILITY (solid, gas): N/A
EXPLOSIVE PROPERTIES: Not an explosive
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: N/A
VAPOR PRESSURE (mm Hg): Not determined
VAPOR DENSITY (Air=1): Not determined
SOLUBILITY (in water): Soluble
SPECIFIC GRAVITY (H_2O=1): 1.02
AUTOIGNITION TEMPERATURE: Not determined
DECOMPOSITION TEMPERATURE: Not determined
PARTITION COEFFICIENT (n-octanol/water): Not determined

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: The product is stable and non-reactive under normal conditions of use, storage and transport.
CHEMICAL STABILITY: This material is stable under normal conditions.
POSSIBILITY OF HAZARDOUS REACTIONS: Hazardous polymerization does not occur.
CONDITIONS TO AVOID: Avoid excessive heat and contact with incompatible materials. Protect from sunlight.
INCOMPATIBLE MATERIALS: Strong acids, acids, oxidizing agents, aluminum metals, inorganic acids and bases.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides and other organic compounds which may be toxic.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY VALUES: There is no data available for this product as a whole. Acute toxicity data for individual components of this product are listed below:

Component/CAS	Oral LD_{50}	Dermal LD_{50}	Inhalation LC_{50}
Nonylphenol, ethoxylated	960-3980 mg/kg (Rat)	2000-2991 mg/kg (Rabbit)	1.15 mg/L;4H dust/mist (Rat)
Aqueous emulsion of polyorganosiloxanes, additives	No data available	ATEmix: 2013.33 mg/kg	No data available.

IRRITANT EFFECT ON THE SKIN: There is no data available for this product as a whole. May cause skin irritation. However, brief contact is not known to be irritating.
Component 127087-87-0: Species: Rabbit. Result: Irritating to skin.
IRRITANT EFFECT ON THE EYES: There is no data available for this product as a whole. Contact with eyes may cause severe irritation with possible chemical burns of the eye.
Component 127087-87-0: Species: Rabbit. Result: Risk of serious damage to eyes.
SENSITIZATION: There is no data available for this product as a whole.
Component 127087-87-0: Not a respiratory sensitizer. Not expected to cause skin sensitization.
MUTAGENICITY: Not classified.
Component 127087-87-0: No data available to indicate this component is mutagenic or genotoxic.
CARCINOGENICITY: Not classified.
Component 127087-87-0: This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.
REPROTOXICITY/TERATOGENICITY: Not classified.
Component 127087-87-0: This component is not expected to cause reproductive or developmental effects.
SINGLE TARGET ORGAN TOXICITY, Single Exposure: Not classified.
SINGLE TARGET ORGAN TOXICITY, Repeated Exposure: Not classified.
ASPIRATION HAZARD: Not an aspiration hazard.
FURTHER INFORMATION ON TOXICOLOGY: None

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY: There is no data available for this product as a whole. Acute ecotoxicity data for individual components of this product are listed below:

Component/CAS	Toxicity to Fish	Toxicity to Invertebrates	Toxicity to Algae
Nonylphenol, ethoxylated	LC_{50}= 3.8-6.2 mg/L;96H (Fathead minnow)	EC_{50}= 9.3-21.4 mg/L;48H (Water flea)	No data available

Component 127087-87-0: Toxic to aquatic life. Toxic to aquatic life with long-lasting effects.
PERSISTENCE AND DEGRADABILITY: No data is available on the degradability of this product as a whole.
Nonylphenols, ethoxylated (NPEs): For this family of materials: Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable. Biodegradation: <60%, Exposure Time: 28d, Method: OECD 301B or Equivalent
BIOACCUMULATIVE POTENTIAL: No data available for the product as a whole.
Nonylphenols, ethoxylated (NPEs): For this family of materials: Partition coefficient: n-octanol/water (log Pow): 2.1-3.4 calculated. Bioconcentration factor (BCF): 5.9-48 Fish estimated
MOBILITY IN SOIL: No data available.
OTHER ADVERSE EFFECTS: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, global warming potential) are expected from this product as a whole.
ADDITIONAL ECOLOGICAL INFORMATION: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long-lasting effects.

SECTION 13 DISPOSAL CONSIDERATIONS

PROCEDURES: Dispose of contents and container in accordance with all federal, state and local regulations. Collect and reclaim product or dispose of in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container.
CONTAMINATED PACKAGING: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after a container has been emptied. Do not re-use empty containers.

SECTION 14 TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING DESCRIPTION: Not regulated
INTERNATIONAL MARITIME ORGANIZATION (IMDG) SHIPPING DESCRIPTION: Not regulated
FREIGHT CLASSIFICATION: Adjuvants, Sprayable Product, Dry or Liquid, Designed for Addition to Sprayable Defoliants, Fertilizers, Fungicides, Herbicides, Insecticides or Miticides (NMFC 42652)

SECTION 15 REGULATORY INFORMATION

US FEDERAL REGULATIONS

TOXIC SUBSTANCES CONTROL ACT (TSCA): All hazardous components of this product are listed on or exempted from the TSCA inventory.
TSCA Chemical Action Plans: Listed Substances: Nonylphenol, ethoxylated (CAS# 127087-87-0). Nonylphenol (NP) and Nonylphenol Ethoxylates (NPEs) Action Plan.
CERCLA Hazardous Substance List (40 CFR 302.4): Not listed.
SARA 311/312 Hazardous Categories:
Acute Health Hazard: Yes
Chronic Health Hazard: No
Fire Hazard: No
Sudden Release of Pressure Hazard: No
Reactive Hazard: No
SARA 302 Extremely Hazardous Substance: Not listed.
SARA 304 Emergency Release Notification: Not listed.
OSHA Specifically Regulated Substances (20 CFR 1910.1001-1050): Not listed.
SARA 313 (TRI Reporting): 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.
CLEAN WATER ACT (CWA): If spilled into waters of the U.S., this product may be reportable under the Clean Water Act.
CLEAN AIR ACT (CAA) Section 112 Hazardous Air Pollutants (HAPs) List: Not listed.
CLEAN AIR ACT (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68-130): Not listed.
SAFE DRINKING WATER ACT (SDWA): Not regulated.
OSHA HAZARD COMMUNICATION STANDARD: This material is not considered to be hazardous in accordance with OSHA 29 CFR 1910.1200.

US STATE REGULATIONS
US- California Candidate Chemicals: Listed on Initial List: Not listed.
US California Controlled Substances: CA Department of Justice (California Health and Safety Code Section 11100): Not listed.
US California Proposition 65: Not listed.

INTERNATIONAL INVENTORIES

Component	AICS	DSL	NDSL	IECSC	EINECS	ELINCS	ENCS	KECL	NZIoC	PICCS	TSCA
Nonylphenol, ethoxylated	X	X		X	X		X	X	X	X	X

Legend:
AICS- Australian Inventory of Chemical Substances
DSL/NDSL- Canadian Domestic Substances List/ Non-Domestic Substances List
IECSC- Inventory of Existing Chemical Substances in China
EINECS- European Inventory of Existing Commercial Chemical Substances
ELINCS- European List of Notified Chemical Substances
ENCS- Japan Inventory of Existing and New Chemical Substances
ECL- Korean Existing Chemicals List
NZIoC- New Zealand Inventory
PICCS- Philippine Inventory of Chemicals and Chemical Substances
TSCA- US and Puerto Rico Toxic Substances Control Act Inventory

SECTION 16 OTHER INFORMATION

REVISION INDICATOR: Triennial SDS review
DATE OF REVISION: 07/17/2023
SUPERSEDES: 07/10/2020

DISCLAIMER: THIS INFORMATION IS BEING SUPPLIED TO YOU UNDER OSHA "RIGHT TO KNOW" REGULATION 29 CFR 1910.1200 AND IS OFFERED IN GOOD FAITH. THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE TRUE AND ACCURATE TO THE BEST OF OUR KNOWLEDGE. ROYAL OIL COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THIS DATE, THE HAZARDS CONNECTED WITH THE USE OF THE MATERIAL, OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. ROYAL OIL COMPANY MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE SAFE USE OF THIS MATERIAL IN YOUR PROCESS OR IN COMBINATION WITH OTHER SUBSTANCES. ROYAL OIL COMPANY ASSUMES NO RESPONSIBILITY FOR DAMAGE OR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.