



SAFETY DATA SHEET

SDS

I – PRODUCT IDENTIFICATION

TRADE NAME (as labeled) **N-90 SPREADER/ACTIVATOR**

CA Reg. No. 70908-50001-AA

RECOMMENDED USE – Non-ionic adjuvant spreader/activator for agricultural sprays. N-90 Spreader/Activator is a water soluble product providing an easily diluted surface active agent. It is for use with herbicides to increase surface wettability, spreadability and contact activity.

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NAME OF PREPARER H. Langheim

II – HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

EYES - H319 May cause irritation to eyes.

SKIN - H312 Harmful if absorbed through skin.

SWALLOWED – H302 Harmful if swallowed.

CARCINOGENICITY – No component of this product is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, OSHA or NTP.

SIGNAL WORD – WARNING

PRECAUTIONARY STATEMENTS –

P102 – KEEP OUT OF REACH OF CHILDREN

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P302 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P310 IF IN EYES: Rinse with water for 15 minutes. Remove contact lenses. Hold eyelids apart while flushing.

P362 Take off contaminated clothing and wash before reuse.

III – COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS No.	%
Polyethoxylated Nonylphenol	9016-45-9	90

IV – FIRST AID MEASURES

Treat symptomatically. Immediately contact a poison treatment specialist if large quantities have been ingested or inhaled.

EYE CONTACT – Wash thoroughly with water for at least 15 minutes. Remove contact lenses. Hold eyelids apart during flushing.

SKIN CONTACT – Remove contaminated clothing and shoes; wash contaminated area with water and soap.

INHALED – Remove from exposure to fresh air.

SWALLOWED – Rinse mouth. Drink 2-3 glasses of water and seek medical assistance. Induce vomiting by touching back of throat with finger. Drink large quantities of water and obtain medical attention.

V – FIRE-FIGHTING MEASURES

FIREFIGHTING PROCEDURE – Must wear MSHA/NIOSH - approved self-contained breathing Apparatus.

FLAMMABLE PROPERTIES – Non-flammable

SUITABLE EXTINGUISH MEDIA – CO₂, water fog or mist. Dry chemical fire extinguishers.

EXPLOSION POTENTIAL – Non-explosive

HAZARDOUS COMBUSTION PRODUCTS – None-known

VI – ACCIDENTAL RELEASE MEASURES

SPILL RESPONSE PROCEDURE – Caution! Floors might be slippery. Wear personal protective equipment. Isolate area. Keep unnecessary and unprotected personnel from entering the area. Keep upwind of spill. Ventilate leak/spill area. Use appropriate safety equipment. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Contain spilled material if possible. Absorb with materials such as sand or dirt. Collect in suitable and properly labeled containers. Do not use water for cleanup.

VII – HANDLING AND STORAGE

To maintain product quality, store in cool, dry place. Do not store in heat or direct sunlight. Use good hygienic practices such as washing hands with soap after handling. Keep out of reach of children and pets. Do not reuse empty containers. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor.

VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION & ENGINEERING CONTROLS – Local exhaust.

RESPIRATORY PROTECTION – MSHA/NIOSH approved respirator is advised where mist is generated.

EYE PROTECTION – Safety glasses or face shield where there is a potential for eye contact.

SKIN PROTECTION – Wear protective work gown and rubber gloves to prevent irritation.

IX – PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

APPEARANCE – Dark brown liquid

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS – Non-flammable and non-explosive

ODOR – Odorless

VAPOR PRESSURE – N/D

ODOR THRESHOLD – N/D

VAPOR DENSITY – N/D

pH – Neutral in water solutions

RELATIVE DENSITY – 9.5 lbs/gal

MELTING POINT/FREEZING POINT – N/D

SOLUBILITIES – Infinite in water

INITIAL BOILING POINT AND BOILING RANGE – N/D

FLASHPOINT – N/A

EVAPORATION RATE – N/D

FLAMMABILITY (SOLID, GAS) – N/A

PARTITION COEFFICIENT: N-OCTANOL/WATER – N/D

AUTO-IGNITION TEMPERATURE – N/A

DECOMPOSITION TEMPERATURE – N/A

VISCOSITY – N/D

N/A: Not Applicable

N/D: Not Determined

X – STABILITY AND REACTIVITY

STABILITY – Stable under normal conditions of use.

CONDITIONS TO AVOID – Strong acids. Strong bases. Strong oxidizers.

INCOMPATIBILITY – Strong acids. Strong bases. Strong oxidizers.

COMPATIBILITY – Nonselective herbicides where a spray adjuvant is recommended to be used with such products.

HAZARDOUS DECOMPOSITION PRODUCTS – None known

HAZARDOUS POLYMERIZATION – Will not occur

XI – TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

SKIN – Repeated contact may cause slight skin irritation. Is not absorbed through skin.

EYE – Repeated contact may cause redness and slight irritation.

INHALED – Vapors can cause irritation of mucus membrane.

SWALLOWED – Possible abdominal pain and nausea.

SENSITIZATION – None

CHRONIC TOXICITY

REPRODUCTIVE EFFECTS – None known

CARCINOGENICITY – This product does not contain any substances that are considered carcinogens by OSHA, NTP, IARC or ACGIH.

XII – ECOLOGICAL INFORMATION

AQUATIC TOXICITY – Toxic to fish and aquatic life. Do not allow undiluted product or large quantities of this product to enter ground water, water course or sewage system.

XIII – DISPOSAL CONSIDERATIONS

Dispose of according to local and state regulations. No special method required. Do not reuse empty containers. Once empty, put in recycling if available. DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

XIV – TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION – Not regulated by DOT.

XV – REGULATORY INFORMATION

TSCA STATUS – Not determined

OSHA STATUS – Not listed as hazardous

CERCLA – None

SARA TITLE III, Section 313 Toxic Chemicals – None

CALIFORNIA PROPOSITION 65 – Not listed

XVI – OTHER INFORMATION**HAZARDOUS MATERIAL INFORMATION SYSTEM (USA)**

NFPA

Health	2
Flammability	1
Reactivity	0
Physical hazard	0

Hazard Rating: 0=Least; 1-Slight; 2=Moderate; 3=High; 4=Severe

Disclaimer

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