

SAFETY DATA SHEET (SDS-US)**WINFIELD
UNITED**

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1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Chemical Name : JetShield
Common Name : Agricultural Adjuvant
Chemical Description : Deposition aid, canopy penetrating agent, drift control agent, non-ionic surfactant and antifoaming agent

1.2. Recommended use of the chemical and restrictions on use

Recommended use : Adjuvant- see product label for full directions for use.
Non-recommended use(s) : See product label for an restrictions on use.

1.3. Details of the supplier of the safety data sheet

Company : WINFIELD SOLUTIONS, LLC
P.O. Box 64589
St. Paul, MN
55164-0589 USA
Telephone :Medical Emergency: 1-877-424-7452 (24 hrs)
:Non-Emergency Business Inquiries: 1-855-494-6343 (Mon-Fri 8am-5pm CST)

1.4. Emergency telephone number

Emergency information : Non-Emergency Phone Number : 1-855-494-6363 (M-F 8AM-5PM CST)
In case of emergency call CHEMTREC US: 1-800-424-9300

24 HOUR EMERGENCY TELEPHONE NUMBERS:
CHEMTREC - US & CANADA toll free: +1-800-424-9300

2. Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation 29CFR 1910.1200**

Chronic aquatic toxicity Category 3 H412

2.2. Label elements

hazard statement : H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statement : P273 - Avoid release to the environment.

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(Prevention)

Precautionary Statement (Disposal) : P501 - Dispose of contents/container in accordance with local regulation.

2.3. Other hazards

None known

3. Composition/information on ingredients

3.1. Substances

-

3.2. Mixtures

Classification according to Regulation 29CFR 1910.1200

Chemical Name	NJ Trade secrets CAS-No.	Concentration	Classification
Polyether Modified Polysiloxane (CASRN Proprietary)	- -	> 20.0000 %	

Texts of H phrases, see in Chapter 16

4. First aid measures

4.1. Description of first aid measures

General advice : Remove soiled or soaked clothing immediately

Inhalation : Remove individual from site of exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Skin contact : Remove soiled or soaked clothing immediately. Wash off immediately with soap and water. Consult a physician if irritation persists.

Eye contact : Flush eye(s) for 15 minutes or more; if irritation persists, consult a physician (preferably an eye specialist) and show MSDS.

Ingestion : If swallowed, seek medical attention and show MSDS.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms : No special hints.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray.

Unsuitable extinguishing media : Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released:
- Carbon monoxide, carbon dioxide, silicon dioxide

5.3. Advice for firefighters

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As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Collect contaminated firefighting water separately, must not be discharged into the drains.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

6.2. Environmental precautions

Do not allow to enter drains or waterways

Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder)

Dispose of absorbed material in accordance with the regulations.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : No special measures necessary if stored and handled as prescribed.

Handling : no data available

Hygiene measures : No smoking, eating or drinking allowed when using this product. Wash hands before breaks and at end of work shift.

General protective measures : Do not inhale gases/vapours/aerosols.
Avoid contact with eyes and skin

7.2. Conditions for safe storage, including any incompatibilities

Prevention of fire and explosion

Information : No special measures required.

Storage

Information : none

Further information on storage conditions : Keep container closed.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)

Ingredients	CAS-No.	Statutory basis/list (Update)	Value type (Form of exposure; Expressed as)	Value	Short-term
Polyether Modified Polysiloxane (CASRN Proprietary)		OSHA PEL	TWA		
Not Established					

8.2. Exposure controls

Engineering controls

Appropriate : Good general (mechanical) ventilation should be sufficient to control airborne levels.

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engineering controls

Personal protective equipment

Eye protection : Use chemical resistant goggles.
Hand protection : PVC gloves
The protective gloves to be worn must satisfy the specifications of EC Guideline 89/686/EEC and the resulting Standard EN374.
Body Protection : protective clothing
Respiratory protection : In case of vapors/aerosols: Use respiratory protective equipment, cartridge for organic gases and vapors.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : liquid

Form : liquid

Colour : yellowish

Odour : slight, typical

Odour Threshold : not measured

pH : not applicable

Melting point : not measured

Boiling point : not measured

Flash point : > 212 °F
Method: TAG CC

Evaporation rate : Unavailable

Flammability : no data available

Upper Explosion/Ignition Limit : not measured

Lower explosion limit : not measured

Vapour pressure : not measured

Relative vapour density : not measured

Relative density : no data available

Solubility : not measured

Water solubility : soluble

Partition coefficient (n-octanol/water) : not measured

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Autoignition temperature : not measured
Thermal decomposition : not measured
Viscosity, kinematic : no data available
Viscosity, dynamic : not determined
Explosive properties : not measured
Oxidising properties : not measured

9.2. Other information

Density : ca. 1 g/cm³
Metal corrosion : not measured
Ignition temperature : not measured

10. Stability and reactivity

10.1. Reactivity

see section "Possibility of hazardous reactions"

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

No
No hazardous reactions with proper storage and handling.

10.4. Conditions to avoid

None with proper storing and handling.

10.5. Incompatible materials

Unknown

10.6. Hazardous decomposition products

None with proper storage and handling.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : LD50
Species: Rat
Dose: 3,612 mg/kg

Acute toxicity (inhalation) : Acute toxicity estimate (ATEmix)
Test atmosphere: Dust/Mist
Dose: > 5 mg/l
Method: Calculation method

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Acute toxicity (dermal) : LD50
Species: rat
Dose: > 2,000 mg/kg

Irritation/corrosion of the skin : Species: rabbit
Result: slight irritant effect - does not require labelling

Serious eye damage/ eye irritation : Species: rabbit
Result: slight irritant effect - does not require labelling
Remarks: Tested as undiluted product.

Respiratory/skin sensitization : no data available

Repeated dose toxicity : no data available

CMR assessment

Carcinogenicity : no data available

Mutagenicity : no data available

Teratogenicity : no data available

Toxicity to reproduction : no data available

Carcinogenicity : Not listed by NTP, IARC, ACGIH, or OSHA as a carcinogen.

Specific Target Organ Toxicity - Single exposure : no data available

Specific Target Organ Toxicity - Repeated exposure : no data available

Aspiration hazard : No Aspiration toxicity classification

Other information : Proper use provided, no adverse health effects have been observed or have been come to our knowledge.
Eye contact may produce an oil film over the eye-ball causing a harmless reversible shortlasting dimness of sight.

12. Ecological information**Ecotoxicology Assessment**

Acute aquatic toxicity : no data available

Chronic aquatic toxicity : no data available

12.1. Toxicity

Aquatotoxicity, fish : Species: rainbow trout
Exposure duration: 96 h
LC50: 12 mg/l
Method: OECD 203

Aquatotoxicity, invertebrates : Species: Daphnia magna
Exposure duration: 48 h
EC50: 110 mg/l

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Method: OECD 202

Aquatic toxicity, algae / aquatic plants : Exposure duration: 72 h
ErC50: > 100 mg/l
Method: OECD 201

Toxicity in microorganisms : no data available

chronic toxicity in fish : no data available

Chronic toxicity in aquatic Invertebrates : no data available

Toxicity in organisms which live in the soil : no data available

Toxicity in terrestrial plants : no data available

Toxicity to Above-Ground Organisms : no data available

12.2. Persistence and degradability

Photodegradation : no data available

Biological degradability : no data available

Physico-chemical removability : no data available

Biochemical Oxygen Demand (BOD) : no data available

Chemical Oxygen Demand (COD) : 1,900 mg/g

relation of BOD/COD : no data available

Dissolved organic carbon (DOC) : no data available

Adsorbed organic bound halogens (AOX) : no data available

Distribution among environmental compartments : no data available

12.3. Bioaccumulative potential

Bioaccumulation : no data available

12.4. Mobility in soil

Environmental : no data available

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distribution

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment : no data available

12.6. Other adverse effects

General Information : The product is considered to be a water pollutant (German law).
Do not allow to enter soil, waterways or waste water canal.

13. Disposal considerations

13.1. Waste treatment methods

Product : In accordance with local authority regulations, take to special waste incineration plant

Contaminated packaging : If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

14. Transport information

Not dangerous according to transport regulations.

14.1 UN number: --
14.2 UN proper shipping name: --
14.3 Transport hazard class(es): --
14.4 Packing group: --
14.5 Environmental hazards: --
14.6 Special precautions for user: No

15. Regulatory information

Canada:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the (M)SDS contains all information required by the Controlled Products Regulation

Canada : WHMIS CLASSIFICATION
Non-WHMIS
All intentional ingredients are listed on the DSL (Domestic Substance List) or have been notified pursuant to the NSN regulations.

US regulations:

SARA Title III Section 311/312 Hazard Categories : Acute Health Hazard

Other regulations : CTFA: complies

State Right to Know : No components subject to "Right-To-Know" legislation in the following States: NJ, PA, MA and RI

SARA 313: This product contains no SARA Title III, Section 313 listed chemicals.

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SARA EHS: NO

California Proposition 65 Statement : Notification : No
This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

HMIS Ratings	Health:	2
	Flammability:	1
	Reactivity:	0
	Personal Protection:	X

Notification status

USA (TSCA)	: listed/registered or exempted
Canada (DSL)	: listed/registered or exempted

16. Other information

List of references

Revision date : 04/30/2015

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Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADNR	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CEGIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCI	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization