

SAFETY DATA SHEET

1. Identification

Product identifier: Proprietary Solvent III-1, Anhydrous

Other means of identification

Product No.: 9287

Recommended use and restriction on use

Recommended use: Not available.

Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: Avantor Performance Materials, Inc.
Address: 3477 Corporate Parkway, Suite 200
Center Valley, PA 18034

Telephone: Customer Service: 855-282-6867

Fax:
Contact Person: Environmental Health & Safety
e-mail: info@avantormaterials.com

Emergency telephone number:

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Germ Cell Mutagenicity Category 1B

Carcinogenicity Category 1B

Specific Target Organ Toxicity -
Single Exposure Category 1

Acute toxicity (Oral) Category 4

Skin sensitizer Category 1B

Label Elements

Hazard Symbol:



Signal Word:

Danger

Hazard Statement: Highly flammable liquid and vapor.
Harmful if swallowed.
May cause an allergic skin reaction.
May cause genetic defects.
May cause cancer.
Causes damage to organs.

Precautionary Statement

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

Response: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. Rinse mouth. If exposed or concerned: Call a POISON CENTER/doctor. Wash contaminated clothing before reuse.

Storage: Store in well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
ETHANOL		64-17-5	93%
METHYL ALCOHOL		67-56-1	6%
ETHYL ACETATE		141-78-6	1%
GASOLINE		8006-61-9	1%
METHYL ISOBUTYL KETONE		108-10-1	1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

Ingestion:	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if symptoms occur.
Inhalation:	Move to fresh air. Get medical attention if symptoms persist.
Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists after washing.

Most important symptoms/effects, acute and delayed

Symptoms: May cause skin and eye irritation.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically. Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: Highly flammable liquid and vapour. In case of fire and/or explosion do not breathe fumes.

Suitable (and unsuitable) extinguishing media

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

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical: Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Heat may cause the containers to explode.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Special protective equipment for fire-fighters: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. See Section 8 of the MSDS for Personal Protective Equipment.

Methods and material for containment and cleaning up:	Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharges. Stop leak if possible without any risk. Use only non-sparking tools. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental Precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling:	DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash hands thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse.
Conditions for safe storage, including any incompatibilities:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a cool, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids. Store locked up.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
ETHANOL	STEL	1,000 ppm	US. ACGIH Threshold Limit Values (2011)
	REL	1,900 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1,900 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,900 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
METHYL ALCOHOL	TWA	200 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	250 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	325 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	260 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	260 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	260 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	325 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	400 ppm	US. ACGIH Threshold Limit Values (2011)
ETHYL ACETATE	REL	1,400 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	1,400 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,400 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	20 ppm	US. ACGIH Threshold Limit Values (2011)
METHYL ISOBUTYL KETONE	STEL	75 ppm	US. ACGIH Threshold Limit Values (2011)
	STEL	300 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	REL	205 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	PEL	410 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	205 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	300 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	300 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
METHYL ALCOHOL (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEL (03 2013)
METHYL ISOBUTYL KETONE (methyl isobutyl ketone: Sampling time: End of shift.)	1 mg/l (Urine)	ACGIH BEL (03 2013)

Appropriate Engineering Controls

No data available.

Individual protection measures, such as personal protective equipment

General information:	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. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection	
Hand Protection:	Chemical resistant gloves
Other:	Wear suitable protective clothing.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

9. Physical and chemical properties

Appearance

Physical state:	Liquid
Form:	No data available.
Color:	Colorless
Odor:	No data available.
Odor threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	77 °C
Flash Point:	13 °C
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explosive limits	
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	1.6 AIR=1
Relative density:	0.79 (20 °C)
Solubility(ies)	
Solubility in water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	463 °C
Decomposition temperature:	No data available.
Viscosity:	No data available.

10. Stability and reactivity

Reactivity:	No dangerous reaction known under conditions of normal use.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.
Conditions to Avoid:	Heat, sparks, flames. Contact with incompatible materials.
Incompatible Materials:	Strong oxidizing agents. Flammable/combustible material. Alkali metals. Fluorine.
Hazardous Decomposition Products:	Fire or excessive heat may produce hazardous decomposition products. By heating and fire, toxic vapors/gases may be formed.

11. Toxicological information

Information on likely routes of exposure

Ingestion:	May be harmful if swallowed.
Inhalation:	Harmful if inhaled.
Skin Contact:	May cause irritation.
Eye contact:	May irritate eyes.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product:	No data available.
Specified substance(s): ETHANOL	LD 50 (Mouse): 3,450 mg/kg LD 50 (Rat): 6,200 mg/kg LD 50 (Guinea Pig): 5,600 mg/kg LD 50 (Rabbit): 6,300 mg/kg LDLo (Dog): 5,500 mg/kg
Specified substance(s): METHYL ALCOHOL	LD 50 (Rat): 5,628 mg/kg LD 50 (Mouse): 7,300 mg/kg LD 50 (Rabbit): 14,300 mg/kg LD 50 (Monkey): 2,000 - 7,000 mg/kg LD 50 (Dog): 7,500 - 8,000 mg/kg
Specified substance(s): ETHYL ACETATE	LD 50 (Rat): 5,600 mg/kg LD 50 (Rabbit): 4,940 mg/kg LD 50 (Mouse): 4,100 mg/kg LD 50 (Guinea Pig): 5,500 mg/kg
Specified substance(s): GASOLINE	LD 50 (Rat): 14,063 mg/kg
Specified substance(s): METHYL ISOBUTYL KETONE	LD 50 (Rat): 2,080 mg/kg

Dermal

Product:	No data available.
Specified substance(s):	

ETHANOL LDLo (Rabbit): 20,000 mg/kg

Specified substance(s):
METHYL ALCOHOL LD 50 (Rabbit): 15,800 mg/kg
LDLo (Monkey): 393 mg/kg

Specified substance(s):
ETHYL ACETATE LD 50 (Rabbit): 20 mg/kg

Specified substance(s):
METHYL ISOBUTYL KETONE LD 50 (Rabbit): > 16,000 mg/kg

Inhalation
Product: Not classified for acute toxicity based on available data.

Repeated Dose Toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: May cause skin irritation.

Serious Eye Damage/Eye Irritation
Product: May irritate eyes.

Respiratory or Skin Sensitization
Product: Not a skin sensitizer.

Carcinogenicity
Product: May cause cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

ETHANOL Overall evaluation: 1. Carcinogenic to humans.

GASOLINE Overall evaluation: 2B. Possibly carcinogenic to humans.

METHYL ISOBUTYL KETONE Overall evaluation: 2B. Possibly carcinogenic to humans.

US. National Toxicology Program (NTP) Report on Carcinogens:
ETHANOL Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
No carcinogenic components identified

Germ Cell Mutagenicity

In vitro
Product: May cause genetic defects.

In vivo
Product: May cause genetic defects.

Reproductive Toxicity
Product: No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure

Product: Causes damage to organs.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: Not classified

Other Effects: None known.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

ETHANOL LC 50 (Rainbow trout,donaldson trout (*Oncorhynchus mykiss*), 96 h): 12,000 - 16,000 mg/l Mortality
LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 13,480 mg/l Mortality
LC 50 (Carp (*Leuciscus idus melanotus*), 48 h): 8,140 mg/l Mortality

METHYL ALCOHOL LC 50 (Bluegill (*Lepomis macrochirus*), 24 h): 19,230 mg/l Mortality
LC 50 (Rainbow trout,donaldson trout (*Oncorhynchus mykiss*), 24 h): 20,300 mg/l Mortality
LC 50 (Fathead minnow (*Pimephales promelas*), 24 h): 29,700 mg/l Mortality
LC 50 (Medaka, high-eyes (*Oryzias latipes*), 24 h): > 10,000 mg/l Mortality
LC 50 (Bluegill (*Lepomis macrochirus*), 96 h): 15,400 mg/l Mortality

ETHYL ACETATE LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 220 - 250 mg/l Mortality

GASOLINE LC 50 (Rainbow trout,donaldson trout (*Oncorhynchus mykiss*), 96 h): 10 - 25 mg/l

METHYL ISOBUTYL KETONE LC 50 (Fathead minnow (*Pimephales promelas*), 96 h): 496 - 514 mg/l Mortality
LC 50 (Carp (*Leuciscus idus melanotus*), 48 h): 672 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

ETHANOL LC 50 (Brine shrimp (*Artemia franchiscana*), 48 h): 25.5 mg/l Mortality
LC 50 (Water flea (*Daphnia magna*), 48 h): 7,560 - 12,600 mg/l Mortality

METHYL ALCOHOL EC 50 (Water flea (*Daphnia magna*), 48 h): 20,450 - 29,350 mg/l Intoxication
LC 50 (Water flea (*Daphnia magna*), 48 h): 2,461 - 4,395 mg/l Mortality

ETHYL ACETATE EC 50 (Brine shrimp (*Artemia salina*), 24 h): 306.9 - 389.9 mg/l Intoxication
LC 50 (Hydra (*Hydra oligactis*), 48 h): 1,350 mg/l Mortality
LC 50 (Water flea (*Daphnia cucullata*), 48 h): 154 mg/l Mortality

METHYL ISOBUTYL KETONE LC 50 (Brine shrimp (*Artemia salina*), 24 h): 1,230 mg/l Mortality
LC 50 (Water flea (*Daphnia magna*), 24 h): 4,280 mg/l Mortality

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: There are no data on the degradability of this product.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

ETHANOL Log Kow: -0.31

METHYL ALCOHOL Log Kow: -0.77

ETHYL ACETATE Log Kow: 0.73

METHYL ISOBUTYL KETONE Log Kow: 1.31

Mobility in Soil: No data available.

Other Adverse Effects: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13. Disposal considerations

Disposal instructions: Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN Number:	UN 1170
UN Proper Shipping Name:	Ethanol solutions
Transport Hazard Class(es)	
Class(es):	3
Label(s):	3
Packing Group:	II
Marine Pollutant:	No

IMDG

UN Number: UN 1170
 UN Proper Shipping Name: ETHANOL SOLUTION
 Transport Hazard Class(es):
 Class(es): 3
 Label(s): 3
 EmS No.: F-E, S-D
 Packing Group: II
 Marine Pollutant: No

IATA

UN Number: UN 1170
 Proper Shipping Name: Ethanol solution
 Transport Hazard Class(es):
 Class(es): 3
 Label(s): 3
 Marine Pollutant: No
 Packing Group: II

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
 None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

ETHANOL	Reportable quantity: 100 lbs.
METHYL ALCOHOL	Reportable quantity: 5000 lbs.
ETHYL ACETATE	Reportable quantity: 5000 lbs.
GASOLINE	Reportable quantity: 100 lbs.
METHYL ISOBUTYL KETONE	Reportable quantity: 5000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity	RQ
ETHANOL	100 lbs.
METHYL ALCOHOL	5000 lbs.
ETHYL ACETATE	5000 lbs.
GASOLINE	100 lbs.
METHYL ISOBUTYL KETONE	5000 lbs.

SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
GASOLINE	75000gallons
ETHANOL	500 lbs
METHYL ALCOHOL	500 lbs
METHYL ISOBUTYL	500 lbs
KETONE	
ETHYL ACETATE	500 lbs

SARA 313 (TRI Reporting)

Chemical Identity	Reporting threshold for other users	Reporting threshold for manufacturing and processing
METHYL ALCOHOL	10000 lbs	25000 lbs.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.,
WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

ETHANOL	Carcinogenic.
ETHANOL	Developmental toxin.
METHYL ALCOHOL	Developmental toxin. WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
METHYL ISOBUTYL	Carcinogenic.
KETONE	
METHYL ISOBUTYL	Developmental toxin.
KETONE	

US. New Jersey Worker and Community Right-to-Know Act

ETHANOL	Listed
METHYL ALCOHOL	Listed

US. Massachusetts RTK - Substance List

ETHANOL	Listed
METHYL ALCOHOL	Listed

US. Pennsylvania RTK - Hazardous Substances

ETHANOL	Listed
METHYL ALCOHOL	Listed

US. Rhode Island RTK

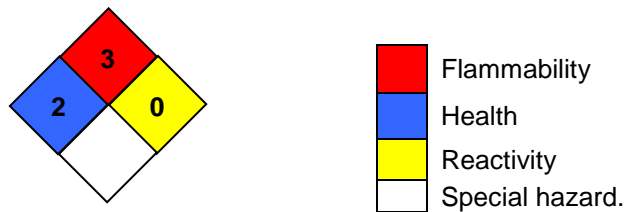
ETHANOL	Listed
METHYL ALCOHOL	Listed

Inventory Status:

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory
Japan (ENCS) List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Canada NDSL Inventory:	Not in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	Not in compliance with the inventory.
Japan Pharmacopoeia Listing:	Not in compliance with the inventory.

16. Other information, including date of preparation or last revision

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date:	12-10-2014
Revision Date:	No data available.
Version #:	1.0
Further Information:	No data available.

Disclaimer:

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