

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Product Identifier

Product Form: Mixture

Product Name: Amex™, Amex™ UG, Amex™ WR

Product Code: 3001

Synonyms: ANFO, Ammonium Nitrate Fuel Oil, Water Resistant ANFO, Water Resistant Amex™, Underground AMEX, and Underground ANFO

Intended Use of the Product

Booster sensitive blasting agent and water resistant blasting agent. For professional use only.

Name, Address, and Telephone of the Responsible Party

Canada:

Orica Canada Inc.
301 Rue Hotel-de-Ville
Brownsburg-Chatham, QC
J8G 3B5

For SDS Requests:

1-855-26-ORICA

sds.na@orica.com

www.oricaminingservices.com

Emergency Telephone Number

Emergency Number : **Canada:** 1-877-561-3636 (Orica Transportation Emergency Response)

USA: 1-800-424-9300 (CHEMTREC)

USA:

Orica USA Inc.
33101 E. Quincy Avenue
Watkins, CO 80137-9406
For SDS Requests: 1-303-268-5000

FOR CHEMICAL EMERGENCIES (24 HOUR) INVOLVING TRANSPORTATION, SPILL, LEAK, RELEASE, FIRE OR ACCIDENTS: **IN CANADA CALL:** THE ORICA TRANSPORTATION EMERGENCY RESPONSE SYSTEM AT **1-877-561-3636. IN THE U.S. CALL: CHEMTREC 1-800-424-9300. IN THE U.S.:** FOR LOST, STOLEN, OR MISPLACED EXPLOSIVES CALL: BATF **1-800-800-3855**. FORM ATF F 5400.5 MUST BE COMPLETED AND LOCAL AUTHORITIES (STATE/MUNICIPAL POLICE, ETC.) MUST BE ADVISED.

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Expl. 1.5 H205

Ox. Sol. 3 H272

Eye Irrit. 2A H319

Carc. 2 H351

STOT RE 2 H373

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H205 - May mass explode in fire
H272 - May intensify fire; oxidizer
H319 - Causes serious eye irritation
H351 - Suspected of causing cancer
H373 - May cause damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure

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- Precautionary Statements (GHS-US)** :
- P201 - Obtain special instructions before use.
 - P202 - Do not handle until all safety precautions have been read and understood.
 - P210 - Keep away from heat, hot surfaces, open flames, sparks - No smoking.
 - P220 - Keep/Store away from clothing, combustible materials.
 - P221 - Take any precaution to avoid mixing with combustible materials.
 - P240 - Ground/bond container and receiving equipment.
 - P250 - Do not subject to friction, grinding, shock.
 - P260 - Do not breathe dust, fume, gas.
 - P264 - Wash hands, forearms, and exposed areas thoroughly after handling.
 - P280 - Wear eye protection, protective clothing, protective gloves.
 - P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P308+P313 - IF exposed or concerned: Get medical advice/attention.
 - P314 - Get medical advice and attention if you feel unwell.
 - P337+P313 - If eye irritation persists: Get medical advice/attention.
 - P370+P378 - In case of fire: Do NOT attempt to fight fire. Evacuate area.
 - P372 - Explosion risk in case of fire.
 - P373 - DO NOT fight fire when fire reaches explosives.
 - P401 - Store as defined in the Explosives Act of Canada and the provisions of the Bureau of Alcohol, Tobacco and Firearms regulations contained in 27 CFR part 555.
 - P405 - Store locked up.
 - P501 - Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Aquatic Chronic 3 H412

H412 - Harmful to aquatic life with long lasting effects

P273 - Avoid release to the environment

Ingestion may cause methemoglobinemia. Initial manifestation of methemoglobinemia is cyanosis, characterized by navy lips, tongue and mucous membranes, with skin color being slate grey. Further manifestation is characterized by headache, weakness, dyspnea, dizziness, stupor, respiratory distress and death due to anoxia.

Unknown Acute Toxicity (GHS US) Not available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Ammonium nitrate	(CAS No) 6484-52-2	80 - 95	Ox. Sol. 3, H272 Eye Irrit. 2A, H319
Fuels, diesel	(CAS No) 68334-30-5	5 - 10	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, IMMEDIATELY seek medical advice (show the label where possible).

Inhalation: Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Obtain medical advice immediately if you feel unwell.

Skin Contact: Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

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Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head positioned to avoid breathing in of vomit, rinse mouth and have victim drink plenty of water. Never give anything by mouth to an unconscious person.

Most Important Symptoms and Effects both Acute and Delayed

General: Causes eye irritation and respiratory tract irritation. Suspected of causing cancer.

Inhalation: Causes irritation to the respiratory tract. May be harmful if inhaled in high concentrations.

Skin Contact: May be irritating to the skin.

Eye Contact: Causes serious eye irritation.

Ingestion: May be harmful if swallowed. May cause cyanosis.

Chronic Symptoms: Causes damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure.

Indication of any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get IMMEDIATE medical advice and attention.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: DO NOT FIGHT FIRES INVOLVING EXPLOSIVES. Water may be applied through fixed extinguishing system (sprinklers) as long as people need not be present for the system to operate.

Unsuitable Extinguishing Media: DO NOT FIGHT FIRES INVOLVING EXPLOSIVES. Attempts to smother a fire involving this product will be ineffective as it is its own oxygen source. Smothering this product could lead to decomposition and explosion. This product is more sensitive to detonation if contaminated with organic or oxidisable material or if heated while confined. Unless the mass of product on fire is flooded with water, re-ignition is possible.

Special Hazards Arising from the Substance or Mixture

Fire Hazard: Not itself combustible but assists fire in burning materials (oxidizing). The product does not flash. Rate of burning: will accelerate burning. After fire has started, this product will continue to burn in the absence of air.

Explosion Hazard: Explosive. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

Reactivity: Oxidizer- accelerates the rate of burning materials and will continue to burn in the absence of air.

Advice for Firefighters

Precautionary Measures Fire: This product is a high explosive with mass detonation hazard. DO NOT FIGHT FIRES INVOLVING EXPLOSIVE MATERIALS. Immediately evacuate all personnel from the area to a safe distance. Guard against re-entry. Thermal decomposition can lead to release of irritating gases and vapors.

Firefighting Instructions: DO NOT FIGHT FIRES INVOLVING EXPLOSIVE MATERIALS.

Protection During Firefighting: When controlling fire before involvement of explosives, fire-fighters should wear positive pressure self-containing breathing apparatus (SCBA) and full turnout gear.

Hazardous Combustion Products: Carbon oxides (CO, CO₂). Nitrous oxides. Ammonium nitrate fumes.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe dust or fumes. Keep away from heat, sparks, open flames, hot surfaces – No smoking. Eliminate every possible source of ignition. Evacuate danger area.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: When controlling fire before involvement of explosives, emergency response personnel should wear positive pressure self-containing breathing apparatus (SCBA) and full turnout gear.

Emergency Procedures: Stop release is safe to do so. Eliminate ignition sources. Ventilate area.

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Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Avoid dust formation; wet spillage with water. Collect product for recovery or disposal. For release to land, contain discharge by constructing dykes or applying inert absorbent; for release to water, utilize damming and/or water diversion to minimize the spread of contamination. Collect contaminated soil and water, and absorbent for proper disposal. Notify applicable government authority if release is reportable or could adversely affect the environment.

Methods for Cleaning Up: Use only non-sparking tools. Avoid the use of metal tools containing iron, copper or brass. Be careful to avoid shock, friction, and contact with grit. Ground equipment electrically. Clear up spills immediately and dispose of waste safely.

Reference to Other Sections

Refer to section 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Hygiene Measures: This product is an explosive and should only be used under the supervision of trained and licensed personnel. Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including any Incompatibilities

Technical Measures: Store as defined in the Explosives Act of Canada and the provisions of the Bureau of Alcohol, Tobacco and Firearms regulations contained in 27 CFR Part 555.

Storage Conditions: Store under moderate temperatures recommended by a technical services representative. Store under dry conditions in a well ventilated magazine that has been approved for either detonator storage or explosive storage. Do NOT store explosives in a detonator magazine or detonators in an explosive magazine. Keep away from heat, spark and flames. Keep containers closed. Explosives should be kept well away from initiating explosives; protected from physical damage; separated from oxidizing materials; combustibles, and sources of heat. Ideal storage temperature is 10-27°C (50-80°F).

Incompatible Materials: Combustibles, heat sources, copper, zinc, alloys of copper or zinc, aluminum powder, mild steel.

Special Rules on Packaging: Keep only in the original container.

Specific End Use(s)

Booster sensitive blasting agent and water resistant blasting agent. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Ammonium nitrate (6484-52-2)		
ORICA Guideline	Internal TWA (mg/m ³)	5 mg/m ³
Fuels, diesel (68334-30-5)		
USA ACGIH	ACGIH TWA (mg/m ³)	100 mg/m ³
Alberta	OEL TWA (mg/m ³)	100 mg/m ³
British Columbia	OEL TWA (mg/m ³)	100 mg/m ³
Manitoba	OEL TWA (mg/m ³)	100 mg/m ³
Newfoundland & Labrador	OEL TWA (mg/m ³)	100 mg/m ³
Nova Scotia	OEL TWA (mg/m ³)	100 mg/m ³
Ontario	OEL TWA (mg/m ³)	100 mg/m ³
Prince Edward Island	OEL TWA (mg/m ³)	100 mg/m ³
Saskatchewan	OEL STEL (mg/m ³)	150 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	100 mg/m ³

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in immediate vicinity of any potential exposure. Product to be handled under strictly controlled conditions. Observe applicable regulations in the Explosives Act of Canada and the provisions of the Bureau of Alcohol, Tobacco and Firearms regulations contained in 27 CFR Part 555.

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Personal Protective Equipment: Gloves. Protective clothing. Respiratory protection. Safety Glasses or goggles.



Materials for Protective Clothing: Chemically resistant material.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing. Wear long sleeves.

Respiratory Protection: Where Occupational Exposure Limits are expected to be exceeded, wear approved respiratory protection.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information On Basic Physical And Chemical Properties

Physical State	: Solid
Appearance	: Green, Blue, Gray, Orange, or Off-White Prills/Granuals
Odor	: Smells like diesel fuel
Odor Threshold	: Not available
pH	: Not available
Relative Evaporation Rate (butyl acetate=1)	: Not available
Melting Point	: 170°C (338°F)
Freezing Point	: Not available
Boiling Point	: Not available
Flash Point	: 52 °C (126 °F)
Auto-ignition Temperature	: 210-265°C (410-509°F)
Decomposition Temperature	: Spontaneously decomposes at temperatures above 210°C (410°F)
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: 0.01 – 0.4 mmHg @ 20°C
Relative Vapor Density at 20 °C	: Not available
Density	: 0.76 - 0.99 g/cc
Specific Gravity	: Not available
Solubility	: Dissolves slowly with prolonged exposure to water
Log Pow	: Not available
Log Kow	: Not available
Viscosity, Kinematic	: Not available
Viscosity, Dynamic	: Not available
Explosion Data - Sensitivity to Mechanical Impact	: 1.5D - Explosive substances and articles
Explosion Data - Sensitivity to Static Discharge	: 1.5D - Explosive substances and articles

SECTION 10: STABILITY AND REACTIVITY

Reactivity Accelerates the rate of burning materials. Oxidizer.

Chemical Stability Stable at standard temperature and pressure. Decomposes at elevated temperatures (>210°C/>410°F).

Possibility of Hazardous Reactions Hazardous polymerization will not occur.

Conditions to Avoid Extremely high or low temperatures. Open flame. Heat. Sparks.

Incompatible Materials Combustibles, heat sources, copper, zinc, alloys of copper or zinc, aluminum powder, mild steel.

Hazardous Decomposition Products Carbon oxides (CO, CO₂). Nitrous oxides. Ammonium nitrate fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Information On Toxicological Effects - Product

Acute toxicity : Not classified

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LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Not classified

Serious Eye Damage/Irritation: Causes serious eye irritation.

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

Teratogenicity: Not available

Carcinogenicity: Suspected of causing cancer.

Specific Target Organ Toxicity (Repeated Exposure): May cause damage to organs through prolonged or repeated exposure.

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Aspiration Hazard: Not classified

Symptoms/Injuries after Inhalation: Causes irritation to the respiratory tract. May be harmful if inhaled in high concentrations.

Symptoms/Injuries after Skin Contact: May be irritating to the skin.

Symptoms/Injuries after Eye Contact: Causes serious eye irritation.

Symptoms/Injuries after Ingestion: May be harmful if swallowed. May cause cyanosis.

Chronic Symptoms: Causes damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data

Ammonium nitrate (6484-52-2)	
LD50 oral rat	2217 mg/kg
LC50 inhalation rat (mg/l)	> 88.8 mg/l (Exposure time: 4 h)
Fuels, diesel (68334-30-5)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rabbit	> 2000 mg/kg
LC50 Inhalation Rat (mg/l)	4.6 mg/l/4h
Fuels, diesel (68334-30-5)	
IARC Group	2B

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ammonium nitrate (6484-52-2)	
LC50 fish 1	65 - 85 mg/l (Exposure time: 48 h - Species: Cyprinus carpio [semi-static])
Fuels, diesel (68334-30-5)	
LC50 Fish 1	35 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

Persistence and Degradability Not available

Bioaccumulative Potential

Ammonium nitrate (6484-52-2)	
BCF fish 1	(no bioaccumulation expected)
Log Pow	-3.1 (at 25 °C)

Mobility in Soil Not available

Other Adverse Effects Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Burn under supervision of a licensed expert at an explosive burning ground or destroy by detonation in boreholes, in accordance with applicable local, state, provincial, territorial, federal and international regulations. Comply with regulations as defined in the Explosives Act of Canada and the provisions of the Bureau of Alcohol, Tobacco and Firearms regulations contained in 27 CFR Part 555.

Ecology - Waste Materials: Hazardous waste due to aquatic toxicity.

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SECTION 14: TRANSPORT INFORMATION

In Accordance with ICAO/IATA/DOT/TDG

UN Number

UN-No.(DOT): 0331

UN Proper Shipping Name

DOT Proper Shipping Name

: Explosive, blasting, type B

Hazard Labels (DOT)

: 1.5D - Explosive substances and articles



Packing Group (DOT)

: II - Medium Danger

Additional Information

Emergency Response Guide (ERG) Number

: 112

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

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SARA Section 311/312 Hazard Classes

Reactive hazard
Sudden release of pressure hazard
Delayed (chronic) health hazard
Immediate (acute) health hazard

Ammonium nitrate (6484-52-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Fuels, diesel (68334-30-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

US State Regulations

Ammonium nitrate (6484-52-2)

U.S. - California - Toxic Air Contaminant List (AB 1807, AB 2728)
U.S. - Delaware - Accidental Release Prevention Regulations - Sufficient Quantities
U.S. - Delaware - Pollutant Discharge Requirements - Reportable Quantities
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - New Jersey - Special Health Hazards Substances List
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Fuels, diesel (68334-30-5)

U.S. - Illinois - Toxic Air Contaminant Carcinogens
U.S. - Illinois - Toxic Air Contaminants
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Groundwater Reportable Concentration - Reporting Category 2
U.S. - Massachusetts - Oil & Hazardous Material List - Reportable Quantity
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 1
U.S. - Massachusetts - Oil & Hazardous Material List - Soil Reportable Concentration - Reporting Category 2

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U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour
U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
U.S. - Pennsylvania - RTK (Right to Know) List
U.S. - Texas - Effects Screening Levels - Long Term
U.S. - Texas - Effects Screening Levels - Short Term

Canadian Regulations

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WHMIS Classification	Class C - Oxidizing Material Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
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Ammonium nitrate (6484-52-2)

Listed on the Canadian DSL (Domestic Substances List) inventory.

WHMIS Classification	Class C - Oxidizing Material
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Fuels, diesel (68334-30-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Note: Explosives are not regulated under WHMIS. They are subject to the regulations of the Explosives Act of Canada.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION

Indication of Changes : 08/06/2013

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 2	Carcinogenicity Category 2
Expl. 1.5	Explosive Category 1.5
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Ox. Sol. 3	Oxidizing solids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
H205	May mass explode in fire
H226	Flammable liquid and vapor
H272	May intensify fire; oxidizer
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure

Party Responsible for the Preparation of this Document:

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Orica Canada Inc.

Phone Number: 1-450-533-4201

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North America GHS US 2012 & WHMIS