

Safety Data Sheet 10ppm Sulfur Dioxide, 50% LEL Methane, 18% VOL Oxygen; balance

Nitrogen

Ideal Calibrations, LLC 2750 Oakwood Blvd. Melvindale, MI 48122 (734) 956-0539 http://www.idealcalibrations.com/

Section 1: Product and Company Identification

Ideal Calibrations, LLC 2750 Oakwood Blvd. Melvindale, MI 48122 (734) 956-0539 http://www.idealcalibrations.com/

Product Code: 10ppm Sulfur Dioxide, 50% LEL Methane, 18% VOL Oxygen; balance Nitrogen Part Number: 0082

| Synonyms. | |
|---------------------|--|
| Recommended Use: | Calibration of gas detection devices |
| Usage Restrictions: | Do not use if current date is past expiration date on cylinder |

Section 2: Hazards Identification



Hazard Classification: Gases Under Pressure

Hazard Statements: Contains gas under pressure; may explode if heated

Precautionary Statements

Storage: Protect from sunlight. Store in well-ventilated place.

Section 3: Composition/Information on Ingredients

| | CAS # | Conce | ntration | | |
|-------------------|--|--------|-----------------|--|--|
| Sulfur Diox | kide 7446-09-5 | 0.001 | | | |
| Methane | 74-82-8 | 2.5 | | | |
| Oxygen | 7782-44-7 | 18 | | | |
| Nitrogen | 7727-37-9 | 79.499 |) | | |
| | Chemical Substance | | Chemical Fami | ily | Trade Names |
| Sulfur Dioxide | SULFUR DIOXIDE Inorganic gases | | | SULFUROUS ACID ANHYDRIDE; SULFUROUS OXIDE; SULPHUR DIOXIDE; SULFUROUS ANHYDRIDE; FERMENTICIDE LIQUID; SULFUR DIOXIDE(SO2); SULFUR OXIDE; SULFUR OXIDE(SO2); STCC 4904290; UN 1079; O2S | |
| Methane | ethane METHANE, Hydrocarbons, COMPRESSED GAS Aliphatic, Saturated | | ated | FIRE DAMP; MARSH GAS; METHYL HYDRIDE; NATURAL GAS; METHANE; UN 1971; R50; CH4 | |
| Oxygen | OXYGEN, Inorganic gases COMPRESSED GAS | | | OXYGEN; DIOXYGEN; MOLECULAR OXYGEN; OXYGEN MOLECULE; PURE OXYGEN; UN 1072; O2 | |
| Nitrogen | NITROGEN, COMPRESSED | | Inorganic gases | ; | DIATOMIC NITROGEN; DINITROGEN; NITROGEN; NITROGEN-14; NITROGEN GAS; UN 1066; N2 |

Section 4: First Aid Measures

| | Skin Contact | Eye Contact | Ingestion | Inhalation | Note to Physicians |
|-------------------|---|---|--|--|---|
| Sulfur Dioxide | Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Thoroughly clean and dry contaminated clothing before reuse. Destroy contaminated shoes. | Immediately flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention. | If a large amount is swallowed, get medical attention. | If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention. | For inhalation, consider oxygen. |
| Methane | Wash exposed skin with soap and water. | Flush eyes with plenty of water. | If a large amount is swallowed, get medical attention. | If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention. | For inhalation, consider oxygen. |
| Oxygen | None expected | None expected | Not likely route of exposure | If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention. | None |
| Nitrogen | Wash exposed skin with soap and water. | Flush eyes with plenty of water. | If a large amount is swallowed, get medical attention. | If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention. | For inhalation, consider oxygen. |

Section 5: Fire Fighting Measures

| | Suitable Extinguishing Media | Products of Combustion | Protection of Firefighters |
|-------------------|---|---------------------------|---|
| Sulfur Dioxide | Non-flammable. Use suitable extinguishing media for surrounding fire. | None known | Non-flammableNon-flammable |

| | Suitable Extinguishing Media | Products of Combustion | Protection of Firefighters | | |
|----------|--|--|--|--|--|
| Methane | Carbon dioxide, regular dry chemical Large fires: Use regular foam or flood with fine water spray. | Carbon monoxide, carbon dioxide, water | Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece. Respiratory protection may be needed for frequent or heavy exposure. Any self-contained breathing apparatus with a full facepiece. | | |
| Oxygen | Non-flammable. Use extinguishing agent appropriate for the material which is burning. Use water in large quantities for fires involving oxygen. | Oxides of burning material | Respiratory protection may be needed for frequent or heavy exposure. None | | |
| Nitrogen | Non-flammable. Use suitable extinguishing media for surrounding fire. Cylinders may rupture or explode if exposed to heat. | Non-flammable | Respiratory protection may be needed for frequent or heavy exposure. | | |

Section 6: Accidental Release Measures

| | Personal Precautions | Environmental Precautions | Methods for Containment |
|-------------------|---|---|---|
| Sulfur Dioxide | Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. Ventilate closed spaces before entering. Evacuation radius: 150 feet. | Avoid contamination of environment. | Stop leak if possible without personal risk. Reduce vapors with water spray. Do not get water directly on material. |
| Methane | Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. | Avoid heat, flames, sparks and other sources of ignition. | Stop leak if possible without personal risk. Reduce vapors with water spray. Remove sources of ignition. |
| Oxygen | Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering. | Avoid contact with combustible materials. | Stop leak if possible without personal risk. |
| Nitrogen | Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas. | No significant effects from contamination expected. | Stop leak if possible without personal risk. |

| | Methods for Cleanup | Other Information |
|-------------------|--|---|
| Sulfur Dioxide | Stop leak, evacuate area. Contact emergency personnel. | Notify Local Emergency Planning Committee and State Emergency Response Commission for release greater than or equal to RQ (U.S. SARA Section 304). If release occurs in the U.S. and is reportable under CERCLA Section 103, notify the National Response Center at (800)424-8802 (USA) or (202)426-2675 (USA). |
| Methane | Not available | Not available |
| Oxygen | Stop leak and ventilate | None |
| Nitrogen | N/A | N/A |

Section 7: Handling and Storage

| | Handling | Storage |
|-------------------|---|--|
| Sulfur Dioxide | Store and use with adequate ventilation. Firmly secure cylinders upright to keep them from falling or being knocked over. Screw valve protection cap firmly in place by hand. Store only where temperature will not exceed 125F (52C). Store full and empty cylinders separately. Use a first-in, first-out inventory system to prevent storing full cylinders for long periods. | Do not get liquid in eyes, on skin, or clothing. Protect cylinders from damage. Use a suitable hand truck to move cylinders; do not drag, roll, slide, or drop. Open valve slowly. Close cylinder valve after each use; keep closed even when empty. If valve is hard to open, discontinue use and contact your supplier. |
| Methane | Store and handle in accordance with all current regulations and standards. Grounding and bonding required. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. | Keep separated from incompatible substances. |
| Oxygen | Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. | Keep separated from incompatible substances. |
| Nitrogen | Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101. | Keep separated from incompatible substances. |

Section 8: Exposure Controls/Personal Protection

| | Exposure Guidelines |
|----------|--|
| Sulfur | SULFUR DIOXIDE: 2 ppm (5 mg/m3) OSHA TWA (vacated by 58 FR 35338, June 30, 1993) 5 ppm (13 mg/m3) OSHA STEL |
| Dioxide | (vacated by 58 FR 35338, June 30, 1993) 5 ppm (13 mg/m3) OSHA TWA 2 ppm ACGIH TWA 5 ppm ACGIH STEL 2 ppm (5 mg/m3) |
| | NIOSH recommended TWA 10 hour(s) 5 ppm (13 mg/m3) NIOSH recommended STEL |
| Methane | METHANE, COMPRESSED GAS: ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA METHANE: |
| | No occupational exposure limits established. ALIPHATIC HYDROCARBON GASES ALKANE (C1-C4): 1000 ppm ACGIH TWA |
| Oxygen | OXYGEN, COMPRESSED GAS: No occupational exposure limits established. |
| Nitrogen | NITROGEN, COMPRESSED GAS: NITROGEN: ACGIH (simple asphyxiant) |

Engineering Controls

Handle only in fully enclosed systems.

| | Eye Protection | Skin Protection | Respiratory Protection |
|-------------------|---|--|--|
| Sulfur Dioxide | Wear splash resistant safety goggles with a face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area. | For the gas: Wear appropriate chemical resistant clothing. For the liquid: Wear appropriate protective, cold insulating clothing. | Non-flammable |
| Methane | Eye protection not required, but recommended. | Protective clothing is not required. | Respiratory protection may be needed for frequent or heavy exposure. Any self- contained breathing apparatus with a full facepiece. |
| Oxygen | Eye protection not required, but recommended. | Protective clothing is not required. | Respiratory protection may be needed for frequent or heavy exposure. |
| Nitrogen | Eye protection not required, but recommended. | Protective clothing is not required. | Respiratory protection may be needed for frequent or heavy exposure. |

General Hygiene considerations

- Avoid breathing vapor or mist
- Avoid contact with eyes and skin
- Wash thoroughly after handling and before eating or drinking

Section 9: Physical and Chemical Properties

| | Physical State | Appearance | Color | Change in Appearance | Physical Form | Odor | Taste |
|----------------|----------------|------------|-----------|----------------------|---------------|-----------------|-----------|
| Sulfur Dioxide | Gas | Clear | Colorless | N/A | Gas | Irritating odor | N/A |
| Methane | Gas | Colorless | Colorless | N/A | Gas | Odorless | Tasteless |
| Oxygen | Gas | Clear | Colorless | N/A | Gas | Odorless | Tasteless |
| Nitrogen | Gas | Clear | Colorless | N/A | Gas | Odorless | Tasteless |

| | Flash Point | Flammability | Partition Coefficient | Autoignition Temperature | Upper Explosive Limits | Lower Explosive Limits |
|-------------------|--------------------|---------------|---|-----------------------------|---------------------------|---------------------------|
| Sulfur Dioxide | Not flammable | Not available | Not available | Nonflammable | Nonflammable | Nonflammable |
| Methane | -369 F (-223 C) | Not available | 724.44 (log = 2.87) (estimated from water solubility) | 999 F (537 C) | 15% | 5% |
| Oxygen | Not flammable | Not available | Not available | Nonflammable | Nonflammable | Nonflammable |
| Nitrogen | Not flammable | Not available | Not available | Nonflammable | Nonflammable | Nonflammable |

| | Boiling Point | Freezing Point | Vapor Pressure | Vapor Density | Specific Gravity | Water Solubility | рН | Odor Threshold | Evaporation Rate | Viscosity |
|-------------------|-----------------------|---------------------|-------------------------|------------------|---------------------|---------------------|--------------------|-------------------|-------------------------|-------------------------|
| Sulfur Dioxide | 14 F (- 10 C) | -99 F (-73 C) | 2432 mmHg @ 20 C | 2.26 (Air=1) | 1.462 @ - 10 C | 22.8% @ 0 C | Acidic in solution | 3-5 ppm | >1 (butyl acetate=1) | Not available |
| Methane | -260 F (-162 C) | -297 F (- 183 C) | 760 mmHg @ -161 C | 0.555 (Air=1) | Not applicable | 3.5% @ 17 C | Not applicable | Not available | Not applicable | 0.01118 cP @ 27 C |
| Oxygen | -297 F (-183 C) | -360 F (- 218 C) | 760 mmHg @ -183 C | 1.1 (Air=1) | Not applicable | 3.2% @ 25 C | Not applicable | Not available | Not applicable | 0.02075 cP @ 25 C |

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| | Boiling Point | Freezing Point | Vapor Pressure | Vapor Density | Specific Gravity | Water Solubility | рН | Odor Threshold | Evaporation Rate | Viscosity |
|----------|-----------------------|---------------------|-------------------------|------------------|---------------------|---------------------|-------------------|-------------------|---------------------|--------------------|
| Nitrogen | -321 F (-196 C) | -346 F (- 210 C) | 760 mmHg @ -196 C | 0.967 (Air=1) | Not applicable | 1.6% @ 20 C | Not applicable | Not available | Not applicable | 0.01787 cP @ 27 |

| | Molecular Weight | Molecular Formula | Density | Weight per Gallon | Volatility by Volume | Volatility | Solvent Solubility |
|-------------------|---------------------|----------------------|---------------------|----------------------|-------------------------|-------------------|--|
| Sulfur Dioxide | 64.06 | S-O2 | 0.169 | Not available | Not available | Not applicable | Soluble: Alcohol, acetic acid, sulfuric acid, ether, chloroform, benzene, sulfuryl chloride, nitrobenzenes, toluene, acetone |
| Methane | 16.04 | C-H4 | 0.717 g/L @ 0 C | Not available | Not applicable | Not applicable | Soluble: Alcohol, ether, benzene, organic solvents |
| Oxygen | 31.9988 | 02 | 1.309 g/L @ 25 C | Not available | Not applicable | Not applicable | Soluble: Alcohol |
| Nitrogen | 28.0134 | N2 | 1.2506 g/L | Not available | 100% | 1 | Soluble: Liquid ammonia |

Section 10: Stability and Reactivity

| | Stability | Conditions to Avoid | Incompatible Materials |
|-------------------|---|---|---|
| Sulfur Dioxide | Stable at normal temperatures and pressure. | Stable at normal temperatures and pressure. | Combustible materials, metals, bases, oxidizing materials, halogens, metal carbide, metal oxides, peroxides, reducing agents, potassium, sodium, nitryl chloride, acrolein, metal oxides, carbide |
| Methane | Stable at normal temperatures and pressure. | Stable at normal temperatures and pressure. | Halogens, oxidizing materials, combustible materials |
| Oxygen | Stable at normal temperatures and pressure. | Stable at normal temperatures and pressure. | Combustible materials, halo carbons, metals, bases, reducing agents, amines, metal salts, oxidizing materials, alkaline earth and alkali metals |
| Nitrogen | Stable at normal temperatures and pressure. | Stable at normal temperatures and pressure. | Metals, oxidizing materials |

| | Hazardous Decomposition Products | Possibility of Hazardous Reactions |
|----------------|---|------------------------------------|
| Sulfur Dioxide | Forms sulfurous acid solution on reaction with water. | Will not polymerize. |
| Methane | Oxides of carbon | Will not polymerize. |
| Oxygen | Miscellaneous decomposition products | Will not polymerize. |
| Nitrogen | Oxides of nitrogen | Will not polymerize. |

Section 11: Toxicology Information

Acute Effects

| | Oral LD50 | Dermal LD50 | Inhalation |
|-------------------|----------------------------|--------------------|---|
| Sulfur Dioxide | LC50, 1 hr, rat = 2520 ppm | Not available | Allergic reactions, burns, toxic |
| Methane | Not available | Not available | Nausea, vomiting, difficulty breathing, irregular heartbeat, headache, drowsiness, fatigue, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma |
| Oxygen | Not established | Not established | Irritation, changes in body temperature, nausea, difficulty breathing, irregular heartbeat, dizziness, disorientation, hallucinations, mood swings, pain in extremities, tremors, lung congestion, convulsions |
| Nitrogen | Not available | Not available | Nausea, vomiting, difficulty breathing, headache, drowsiness, dizziness, tingling sensation, loss of coordination, convulsions, coma |

| | Eye Irritation | Skin Irritation | Sensitization |
|-------------------|------------------|------------------|---|
| Sulfur Dioxide | Corrosive, burns | Corrosive, burns | Acute toxicity, Category 3, inhalation; H331: Toxic if inhaled. Skin corrosion, Category 1B; H314: Causes severe skin burns and eye damage. |

| | Eye Irritation | Skin Irritation | Sensitization |
|----------|---|---|---|
| Methane | No information on significant adverse effects | No information on significant adverse effects | Difficulty breathing |
| Oxygen | No information on significant adverse effects | No information on significant adverse effects | No significant target effects reported. |
| Nitrogen | Contact with rapidly expanding gas may cause burns or frostbite | No information on significant adverse effects | Difficulty breathing |

Chronic Effects

| | Carcinogenicity | Mutagenicity | Reproductive Effects | Developmental Effects |
|-------------------|--|---------------|-------------------------|--------------------------|
| Sulfur Dioxide | IARC: Human Inadequate Evidence, Animal Limited Evidence, Group 3; ACGIH: A4 -Not Classifiable as a Human Carcinogen | Available. | Available. | No data |
| Methane | Not available | Not available | Not available | No data |
| Oxygen | Not known. | Available. | Available. | No data |
| Nitrogen | Not hazardous | Not available | Not available | No data |

Section 12: Ecological Information

Fate and Transport

| | Eco toxicity | Persistence / Degradability | Bioaccumulation / Accumulation | Mobility in Environment |
|-------------------|---|---|--|---|
| Sulfur Dioxide | Fish toxicity: 3000 ug/L 0.667-0.833 hour(s) (Avoidance) Atlantic menhaden (Brevoortia tyrannus) Invertibrate toxicity: Not available Algal toxicity: 500 ug/L 6 day(s) (Cellular) Green algae (Rhizoclonium hieroglyphicum) Phyto toxicity: Not available Other toxicity: >=150 ug/L NR hour(s) (Biochemical) Duckweed (Lemna minor) | Not available | Not available | Not available |
| Methane | Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available | Relatively non-persistent in the environment. Moderately volatile from water. | Accumulates very little in the bodies of living organisms. | Not expected to leach through the soil or the sediment. |
| Oxygen | Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available | Not available | Low bioaccumulation | Not available |
| Nitrogen | Fish toxicity: Not available Invertibrate toxicity: Not available Algal toxicity: Not available Phyto toxicity: Not available Other toxicity: Not available | Not available | Not available | Not available |

Section 13: Disposal Considerations

| Sulfur Dioxide | Dispose in accordance with all applicable regulations. |
|-------------------|---|
| Methane | Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001. |
| Oxygen | Dispose in accordance with all applicable regulations. Subject to disposal regulations: U.S. EPA 40 CFR 262. Hazardous Waste Number(s): D001. |
| Nitrogen | Dispose in accordance with all applicable regulations. |

U.S. DOT 49 CFR 172.101

DOT Information For This Mixture

| Compressed gas, n.o.s. (Nitrogen, Oxygen) | | | |
|---|--|--|--|
| UN1956 | | | |
| 2.2 | | | |
| Non-Flammable Gas | | | |
| | | | |
| | | | |
| | | | |

Individual Component Information

| | Proper Shipping Name | ID Number | Hazard Class or Division | Packing Group | Labeling Requirements | Passenger Aircraft or Railcar Quantity Limitations | Cargo Aircraft Only Quantity Limitations | Additional Shipping Description |
|-------------------|----------------------------|--------------|--------------------------------|-------------------|--------------------------|---|--|---------------------------------------|
| Sulfur Dioxide | Sulfur dioxide | UN1079 | 2.3 | Not applicable | 2.3; 8 | Forbidden | Forbidden | Toxic- Inhalation Hazard Zone C |
| Methane | Methane, compressed | UN1971 | 2.1 | Not applicable | 2.1 | Forbidden | 150 kg | N/A |
| Oxygen | Oxygen, compressed | UN1072 | 2.2 | Not available | 2.2; 5.1 | 75 kg or L | 150 kg | N/A |
| Nitrogen | Nitrogen, compressed | UN1066 | 2.2 | Not applicable | 2.2 | 75 kg or L | 150 kg | N/A |

Canadian Transportation of Dangerous Goods

| | Shipping Name | UN Number | Class | Packing Group / Risk Group |
|----------------|----------------------|-----------|----------|----------------------------|
| Sulfur Dioxide | Sulfur dioxide | UN1079 | 2.3; 8 | Not applicable |
| Methane | Methane, compressed | UN1971 | 2.1 | Not applicable |
| Oxygen | Oxygen, compressed | UN1072 | 2.2; 5.1 | Not applicable |
| Nitrogen | Nitrogen, compressed | UN1066 | 2.2 | Not applicable |

Section 15: Regulatory Information

U.S. Regulations

| | CERCLA Sections | SARA 355.30 | SARA 355.40 |
|----------------|-----------------|----------------|----------------|
| Sulfur Dioxide | Not regulated. | 500 LBS TPQ | 500 LBS RQ |
| Methane | Not regulated. | Not regulated. | Not regulated. |
| Oxygen | Not regulated. | Not regulated. | Not regulated. |
| Nitrogen | Not regulated. | Not regulated. | Not regulated. |

SARA 370.21

| | Acute | Chronic | Fire | Reactive | Sudden Release |
|----------------|-------|---------|------|----------|----------------|
| Sulfur Dioxide | Yes | Yes | No | No | Yes |
| Methane | Yes | No | Yes | No | Yes |
| Oxygen | No | No | Yes | No | Yes |
| Nitrogen | Yes | No | No | No | Yes |

SARA 372.65

| Sulfur Dioxide | Not regulated. |
|----------------|----------------|
| Methane | Not regulated. |
| Oxygen | Not regulated. |
| Nitrogen | Not regulated. |

| OSHA | Process | Safety |
|------|---------|--------|
| | 1100000 | Guicty |

| Sulfur Dioxide | 1000 LBS TQ | |
|----------------|----------------|--|
| Methane | Not regulated. | |
| | | |

| Oxygen | Not regulated. |
|----------|----------------|
| Nitrogen | Not regulated. |

State Regulations

| | CA Proposition 65 |
|----------|--|
| Sulfur | WARNING: This product can expose you to chemicals including sulfur dioxide, which is known to the State of California to cause |
| Dioxide | cancer. For more information go to www.P65Warnings.ca.gov. |
| Methane | Not regulated. |
| Oxygen | Not regulated. |
| Nitrogen | Not regulated. |

Canadian Regulations

| | WHMIS Classification |
|----------------|----------------------|
| Sulfur Dioxide | AD1 |
| Methane | A, B1 |
| Oxygen | A,C |
| Nitrogen | A |

National Inventory Status

| | US Inventory (TSCA) | TSCA 12b Export Notification | Canada Inventory (DSL/NDSL) |
|----------------|----------------------|-------------------------------------|-----------------------------|
| Sulfur Dioxide | Listed on inventory. | Not listed. | Not determined. |
| Methane | Listed on inventory. | Not listed. | Listed on inventory. |
| Oxygen | Listed on inventory. | Not listed. | Not determined. |
| Nitrogen | Listed on inventory. | Not listed. | Listed on inventory. |

Section 16: Other Information

| | NFPA Rating |
|----------------|---|
| Sulfur Dioxide | HEALTH=3 FIRE=0 REACTIVITY=0 |
| Methane | HEALTH=0 FIRE=4 REACTIVITY=0 |
| Oxygen | HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=OX |
| Nitrogen | HEALTH=0 FIRE=0 REACTIVITY=0 SPECIAL=SA |

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard