



8210 N. Austin Avenue, Morton Grove, IL 60053-3205, U.S.A.
 847-967-6000 800-323-8144
 (Monday - Friday: 7:30 a.m. - 4:00 p.m. CST)

Emergency Contact:
 INFOTRAC 800-535-5053 [U.S.A.]

Name: IAM Drug Screening Calibration Mix
 Code: 1-774015-300; 1-774015-500

.....**SAFETY DATA SHEET**.....

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

- 1.1 Product Identifier
 - Name IAM Drug Screening Calibration Mix
 - Code 1-774015-300; 1-774015-500
- 1.2 Use of Substance/Mixture
 - Use Laboratory chemical—Analytical reagent
- 1.3 Details of Manufacturer/Supplier
 - Company Regis Technologies, Inc.
 8210 N. Austin Avenue
 Morton Grove, IL 60053
 847-967-6000; 800-323-8144 (toll free)
 Email: cservice@registech.com
 www.registech.com
- 1.4 Emergency Telephone
 - INFOTRAC 800-535-5053 [U.S.A.]

SECTION 2 HAZARDS IDENTIFICATION

- 2.1 Classification of the Substance or Mixture
 - GHS Classification
 - Physical Hazards
 - Flammable liquid Category 4 H227
 - Health Hazards
 - Acute toxicity, Oral Category 4 H302
 - Skin irritation Category 2 H315
 - Eye damage Category 1 H318
 - Specific target organ toxicity – Single exposure, Respiratory irritation Category 3 H335
 - Skin sensitization Category 1 H317
 - Environmental Hazards
 - Acute aquatic toxicity Category 2 H401
 - Chronic aquatic toxicity Category 2 H411

GHS Label Elements



Pictogram

Signal Word Danger

- Hazard Statement(s)
- H227 – Combustible liquid
 - H302 – Harmful if swallowed.
 - H315 – Causes skin irritation.
 - H317 – May cause an allergic skin reaction.
 - H318 – Causes serious eye damage.
 - H335 – May cause respiratory irritation.
 - H401 – Toxic to aquatic life.
 - H411 – Toxic to aquatic life with long lasting effects.

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Precautionary Statement(s)

- P210 – Keep away from heat/sparks/open flames/hot surfaces - No .
- P261 – Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 – Wear protective gloves/protective clothing/eye protection/face protection.
- P264 – Wash thoroughly after handling.
- P273 – Avoid release to the environment.
- P301+P310 – IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P302+P352 – IF ON SKIN: Wash with plenty of soap and water.
- P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P304+P340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P332+P337+P313 – If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 – If eye irritation persists: Get medical advice/attention.
- P403+P235 – Store in a well-ventilated place. Keep cool.
- P501 – Dispose contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Name IAM Drug Screening Calibration Mix

Synonyms None. This mixture contains nine drug substances in a dimethyl sulfoxide (DMSO) solution.

Hazardous components

Component	Classification	Concentration
Dimethyl sulfoxide CAS No. 67-68-5 EC No. 200-664-3 Formula C ₂ H ₆ OS Molecular weight 78.13	Flam. Liq. 4; H227	82.19%
Octanophenone CAS No. 1674-37-9 EC No. 216-817-2 Formula C ₁₄ H ₂₀ S Molecular weight 204.31	Not a hazardous substance.	2.59%
Heptanophenone CAS No. 1671-75-6 EC No. 216-802-0 Formula C ₁₃ H ₁₈ O Molecular weight 190.28	Not a hazardous substance.	2.39%
Hexanophenone CAS No. 942-92-7 EC No. 213-394-6 Formula C ₁₂ H ₁₆ O Molecular weight 176.25	Skin Irr 2; Eye Irr 2A; H315; H319	2.19%
Valerophenone CAS No. 1009-14-9 EC No. 213-767-3 Formula C ₁₁ H ₁₄ O Molecular weight 162.22	Not a hazardous substance.	2.04%
Paracetamol CAS No. 103-90-2 EC No. 203-157-5 Formula C ₈ H ₉ NO ₂ Molecular weight 151.17	Acute Tox 4; Skin Irr 2; Eye Irr 2; STOT-SE (resp) 3; Aq. Acute 2; Aq. Chronic 2; H302; H315; H319; H335; H401; H411	1.89%

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Component	Classification	Concentration
Butyrophenone CAS No. 495-40-9 EC No. 207-799-7 Formula C ₁₀ H ₁₂ O Molecular weight 148.20	Eye Dam. 1; Skin Sens. 1; H318; H317	1.84%
Acetanilide CAS No. 103-84-4 EC No. 203-150-7 Formula C ₈ H ₉ NO Molecular weight 135.16	Acute Tox. 4; Acute Aq. 3; H302; H402	1.69%
Propiophenone CAS No. 93-55-0 EC No. 202-257-6 Formula C ₉ H ₁₀ O Molecular weight 134.18	Not a hazardous substance.	1.69%
Acetophenone CAS No. 98-86-2 EC No. 202-708-7 Formula C ₈ H ₈ O Molecular weight 120.15	Not a hazardous substance.	1.49%

For full text of the abbreviations in this Section, see Section 16. For full text of H-Statements, see Section 2.

SECTION 4 FIRST AID MEASURES

- 4.1 Description of first aid measures
 General: If symptoms persist, get medical attention.
 Eye contact: Rinse eyes with plenty of water for at least 15 minutes; lift eyelids occasionally.
 Skin contact: Immediately remove contaminated clothing and shoes, then wash skin with soap and plenty of water.
 Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and keep person warm and at rest.
 Ingestion: **Do not induce vomiting.** Never give anything by mouth to an unconscious person. Consult physician.
 Physician note: Symptomatic and supportive care. There is no specific antidote.
- 4.2 Most important symptoms and effects, both acute and delayed.
 Irritant effects, redness, skin rash, burning eyes, difficulty breathing, cyanosis.
- 4.3 Indication of immediate medical attention and special treatment needed.
 Wear self-contained breathing apparatus for firefighting, if necessary.

SECTION 5 FIRE-FIGHTING MEASURES

- 5.1 Suitable Extinguishing Media
 Water, Carbon dioxide (CO₂), Foam, Dry powder.
 Cool closed containers exposed to fire with water spray, as needed.
- 5.2 Specific hazards arising from the chemical.
 Combustible.
 Vapors may form explosive mixtures with air. Vapors can accumulate in low areas.
 Avoid inhalation of material or combustion by-products.
 Emits toxic fumes under fire conditions: May emit carbon oxides, nitrogen oxides, sulfur oxides
- 5.3 Advice for fire-fighters
 Wear protective clothing to prevent contact with skin and eyes.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment, and emergency procedures
 For non-emergency personnel - Avoid material contact or inhalation of mists. Evacuate unnecessary personnel from area. For emergency responders – Wear protective clothing to prevent contact with skin and eyes. Avoid breathing mists. See Section 8.3.
 Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
- 6.2 Environmental precautions
 Prevent material from entering drains.
- 6.3 Methods of clean up
 Ventilate area. Isolate spilled material. Absorb using chemically compatible spill pillows, or similar adsorbent material. Sweep up, if not absorbed in pillow, seal in appropriate hazardous waste container, and hold for proper waste disposal. Keep out of water supplies and sewers. Wash spill site after material pickup is complete.

SECTION 7 HANDLING AND STORAGE

- 7.1 Safe Handling Precautions
 Wear suitable protective equipment to avoid contact with skin, eyes, or inhalation of mists.
 Keep away from sources of ignition – No smoking. Take measures to prevent the buildup of electrostatic charge.
- 7.2 Storage Conditions
 Store tightly closed in a cool, dry, and well ventilated place. Store away from incompatible materials (See Section 10.).
 Store under inert gas. Hygroscopic.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters
 Exposure limits: No limits for the mixture.
 Acetophenone (98-86-2): ACGIH – TLV 10 PPM, TWA.
 Environmental Do not empty into drains.
- 8.2 Appropriate engineering controls
 Safety shower and eye wash
 Local exhaust and mechanical ventilation required. Hood recommended. Fume scrubber.
- 8.3 Personal protection
 Eye/Face Chemical safety eyewear or goggles.
 Hand Compatible chemical-resistant gloves.
 Respiratory If exposure to mists likely: NIOSH/MSHA approved respirator for organic vapor and mists.
 Dermal (not hand) Protective Clothing (e.g., lab coat)
 Hygiene Avoid inhalation, ingestion; contact with eyes, skin, and clothing; Avoid prolonged or repeated exposure.
 Wash thoroughly after handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Information on physical and chemical data

Form	liquid
Appearance	clear colorless solution
Odor	characteristic, slightly sulfurous
Odor threshold	No data available
pH	No data available
Melting/freezing point	16-19°C (61-66°F) @ 1.013 hPa (DMSO)
Boiling point and boiling range:	189°C (372°F) @ 1.013 hPa (DMSO)

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Flash Point	87°C (189°F) (closed cup) (DMSO)
Evaporation Rate (BuAc = 1.0)	No data available
Flammability (solid, gas)	No data available
Flammable limits (%v/v)	UEL (upper explosive limit) 42% (DMSO) LEL (lower explosive limit) 3.5% (DMSO)
Vapor pressure (mmHg)	0.55 hPa (0.41 mmHg) at 20°C (68°F) (DMSO)
Vapor density (air=1):	2.70 (DMSO)
Relative density (g/cm ³)	1.1 g/mL (@ 20°C (DMSO)
Water Solubility	completely miscible in water (DMSO)
Partition coefficient: N-octanol/water	No data available
Autoignition temperature	215°C (419°F) (DMSO)
Decomposition temperature	> 374 °F (> 190 °C) (DMSO)
Viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available
OSHA Flammability Class	IIIA
Water reactive	No

SECTION 10 STABILITY AND REACTIVITY

- 10.1 Reactivity
Stable.
- 10.2 Chemical Stability
Stable is stored protected from heat, flames, sparks, and ignition sources.
- 10.3 Possibility of hazardous reactions
No data available
- 10.4 Conditions to avoid
Avoid incompatibilities.
Protect from moisture – hygroscopic.
Keep out of water supplies and sewers.
- 10.5 Incompatible materials
Strong oxidizing agents. Strong reducing agents, acid chlorides, phosphorus halides, strong acids
- 10.6 Hazardous decomposition products
Combustion carbon oxides, nitrogen oxides, sulfur oxides

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Toxicological Information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L	Inhalation Dust/Mist LC50, mg/L	Inhalation Gas LC50, ppmV
Dimethyl sulfoxide (67-68-5)	Rat 14,500	Rat >5,000	No data available	No data available	Rat 40,250 (/4hr)
Octanophenone (1674-37-9)	No data available	No data available	No data available	No data available	No data available
Heptanophenone (1671-75-6)	No data available	No data available	No data available	No data available	No data available
Hexanophenone (942-92-7)	No data available	No data available	No data available	No data available	No data available
Valerophenone (1009-14-9)	No data available	No data available	No data available	No data available	No data available
Paracetamol (103-90-2)	Rat 1,944	No data available	No data available	No data available	No data available
Butyrophenone (495-40-9)	Rat 3,300	No data available	No data available	No data available	No data available
Acetanilide (103-84-4)	Rat 800	No data available	No data available	No data available	No data available

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Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L	Inhalation Dust/Mist LC50, mg/L	Inhalation Gas LC50, ppmV
Propiophenone (93-55-0)	Rat 4,534.9	Rabbit 4,530.4	No data available	No data available	No data available
Acetophenone (98-86-2)	Rat 815	Rabbit 16,329	No data available	No data available	No data available

Skin corrosion/irritation; Serious eye damage/irritation; Respiratory irritation; Respiratory or skin sensitization; and Germ cell mutagenicity

Ingredient	Skin corrosion/irritation	Serious eye damage/irritation	Respiratory or skin sensitization	Germ cell mutagenicity
Dimethyl sulfoxide (67-68-5)	Rabbit 500mg/24hr mild irritation	Rabbit 500mg/24hr mild irritation	No data available	Genotoxicity in vitro-Ames test result: Negative (IUCLID); Mutagenicity (mammal cell test): Chromosome aberration result: Negative (National Toxicology Program)
Octanophenone (1674-37-9)	No data available	No data available	No data available	No data available
Heptanophenone (1671-75-6)	No data available	No data available	No data available	No data available
Hexanophenone (942-92-7)	No data available	No data available	No data available	No data available
Valerophenone (1009-14-9)	No data available	No data available	No data available	No data available
Paracetamol (103-90-2)	No data available	No data available	Prolongued or repeated exposure may cause allergic reactions in sensitive individuals	No data available
Butyrophenone (495-40-9)	No data available	No data available		No data available
Acetanilide (103-84-4)	Rabbit No irritation	Rabbit No irritation	No data available	No data available
Propiophenone (93-55-0)	Rabbit mild irritation	Rabbit mild irritation	No data available	No data available
Acetophenone (98-86-2)	Rabbit mild irritation	Rabbit severe irritation	No data available	No data available

Carcinogenicity

Ingredient	IARC	ACGIH	NTP	OSHA	Notes
Dimethyl sulfoxide (67-68-5)	Not Listed*	Not Listed*	Not Listed*	Not Listed*	None.
Octanophenone (1674-37-9)	Not Listed*	Not Listed*	Not Listed*	Not Listed*	None.
Heptanophenone (1671-75-6)	Not Listed*	Not Listed*	Not Listed*	Not Listed*	None.
Hexanophenone (942-92-7)	Not Listed*	Not Listed*	Not Listed*	Not Listed*	None.
Valerophenone (1009-14-9)	Not Listed*	Not Listed*	Not Listed*	Not Listed*	None.
Paracetamol (103-90-2)	Listed	Not Listed*	Not Listed*	Not Listed*	IARC 3 – Group 3: Not classifiable as to its carcinogenicity to humans
Butyrophenone (495-40-9)	Not Listed*	Not Listed*	Not Listed*	Not Listed*	None.
Acetanilide (103-84-4)	Not Listed*	Not Listed*	Not Listed*	Not Listed*	None.
Propiophenone (93-55-0)	Not Listed*	Not Listed*	Not Listed*	Not Listed*	None.
Acetophenone (98-86-2)	Not Listed*	Not Listed*	Not Listed*	Not Listed*	None.

*Not Listed: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by any of the following group classifications.

Reproductive toxicity (Including teratogenicity); Serious eye damage/irritation; Specific target organ toxicity (STOT) single exposure (SE) and repeated exposure (RE); Aspiration hazard; and RTECS Number

Ingredient	Reproductive & Teratogenicity	STOT-SE	STOT-RE	Aspiration hazard	RTECS Number
Dimethyl sulfoxide (67-68-5)	Did not show teratogenic effects in animal experiments (IUCLID).	No data available	No data available	No data available	PV6210000
Octanophenone (1674-37-9)	No data available	No data available	No data available	No data available	No data available
Heptanophenone (1671-75-6)	No data available	No data available	No data available	No data available	No data available
Hexanophenone (942-92-7)	No data available	Inhalation - May cause respiratory irritation	No data available	No data available	No data available

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Ingredient	Reproductive & Teratogenicity	STOT-SE	STOT-SE	Aspiration hazard	RTECS Number
Valerophenone (1009-14-9)	No data available	No data available	No data available	No data available	No data available
Paracetamol (103-90-2)	No data available	Inhalation - May cause respiratory irritation	No data available	No data available	AE4200000
Butyrophenone (495-40-9)	No data available	No data available	No data available	No data available	No data available
Acetanilide (103-84-4)**	No data available	No data available	No data available	No data available	AD7350000
Propiophenone (93-55-0)	No data available	No data available	No data available	No data available	UG7175000
Acetophenone (98-86-2)	No data available	No data available	No data available	No data available	AM5250000

SECTION 12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Ingredient	Fish LC50	Crustacea EC50	Algae EC50
Dimethyl sulfoxide (67-68-5)	Pimephales promelas: 34,000 mg/L	Daphnia magna: 25,000 mg/L	Skeletonema costatum: 12,350 mg/L (96 hr)
Octanophenone (1674-37-9)	No data available	No data available	No data available
Heptanophenone (1671-75-6)	No data available	No data available	No data available
Hexanophenone (942-92-7)	No data available	No data available	No data available
Valerophenone (1009-14-9)	No data available	No data available	No data available
Paracetamol (103-90-2)	Pimephales promelas: 814 mg/L (96hr)	Daphnia magna: 9.2 mg/L (48hr)	Skeletonema costatum: 150 mg/L (72 hr)
Butyrophenone (495-40-9)	No data available	No data available	No data available
Acetanilide (103-84-4)	Lepomis macrochirus: 100 mg/L (96hr)	No data available	No data available
Propiophenone (93-55-0)	No data available	No data available	No data available
Acetophenone (98-86-2)	Pimephales promelas: 162 mg/L (96hr)	Daphnia magna: 95 mg/L (48hr)	No data available

- 12.2 Persistence and degradability No data available for this product.
- 12.3 Bioaccumulative potential BCF = No data available for this product.
- 12.4 Motility in soil Log Kow = No data available for this product.
- 12.5 Other adverse effects No data available for this product.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste Disposal That which cannot be recovered or recycled, should be disposed of in accordance with all applicable international, national, regional, state, and local laws. Do NOT dump into any sewer, on ground, or into any body of water.

SECTION 14 TRANSPORT INFORMATION

- 14.1 DOT (US) - Not regulated
- 14.2 IATA - Not regulated
- 14.3 IMDG - Not regulated; Not a Marine Pollutant.

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and Environmental regulations specific for the product in question.

NFPA: H0 F2 R0 HMIS: H0 F2 PH0

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15.2 Chemical Inventory Lists

Ingredient	CAS	EINECS	TSCA	DSL	NDSL	State Lists	On CA 65 Significant Risk Level	CERCLA 103	RCRA Code	CAA 112(r)
Dimethyl sulfoxide	67-68-5	200-664-3	L	L	-	PA	NL	NL	NL	NL
Octanophenone	1674-37-9	216-817-2	L	-	L	PA	NL	NL	NL	NL
Heptanophenone	1671-75-6	216-802-0	L	L	-	-	NL	NL	NL	NL
Hexanophenone	942-92-7	213-394-6	L	-	L	-	NL	NL	NL	NL
Valerophenone	1009-14-9	213-767-3	L	L	-	-	NL	NL	NL	NL
Paracetamol	103-90-2	203-157-5	L	L	-	-	NL	NL	NL	NL
Butyrophenone	495-40-9	207-799-7	L	L	-	-	NL	NL	NL	NL
Acetanilide	103-84-4	203-150-7	L	L	-	PA	NL	NL	NL	NL
Propiophenone	93-55-0	202-257-6	L	L	-	-	NL	NL	NL	NL
Acetophenone	98-86-2	202-708-7	L	L	-	PA,NJ	NL	L	U004	NL

Ingredient	CAS	EINECS	SARA 302/304	SARA 313	SARA 311/312 Acute Health Hazard	SARA 311/312 Chronic Health Hazard	SARA 311/312 Fire Hazard	SARA 311/312 Pressure Hazard	SARA 311/312 Reactive Hazard
Dimethyl sulfoxide	67-68-5	200-664-3	NL	NL	Y	N	Y	N	N
Octanophenone	1674-37-9	216-817-2	NL	NL	N	N	N	N	N
Heptanophenone	1671-75-6	216-802-0	NL	NL	N	N	N	N	N
Hexanophenone	942-92-7	213-394-6	NL	NL	N	N	N	N	N
Valerophenone	1009-14-9	213-767-3	NL	NL	N	N	N	N	N
Paracetamol	103-90-2	203-157-5	NL	NL	Y	Y	N	N	N
Butyrophenone	495-40-9	207-799-7	NL	NL	Y	N	N	N	N
Acetanilide	103-84-4	203-150-7	NL	NL	Y	N	N	N	N
Propiophenone	93-55-0	202-257-6	NL	NL	N	N	N	N	N
Acetophenone	98-86-2	202-708-7	NL	L	Y	N	Y	N	N

SECTION 16 OTHER INFORMATION

16.1 Abbreviations for GHS categories used in Section 3. Refer to Section 2 for full text of H-Statements.

- Acute Tox Acute toxicity, Oral
- Aq. Acute Acute aquatic toxicity
- Aq. Chronic Chronic aquatic toxicity
- Eye Dam. Eye damage
- Eye Irr. Eye irritation
- Flam. Liq. Flammable liquid
- Skin Irr. Skin irritation
- Skin Sens. Skin sensitization
- STOT-SE (resp) Specific target organ toxicity – Single exposure, Respiratory irritation

The above information is believed to be correct to the best of our present state knowledge, but does not purport to be all-inclusive and shall be used only as a guide. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

This is the last page of this MSDS.

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