

Safety Data Sheet

acc. to OSHA HCS

Date of issue: 03/19/2025

Revision date 03/19/2025

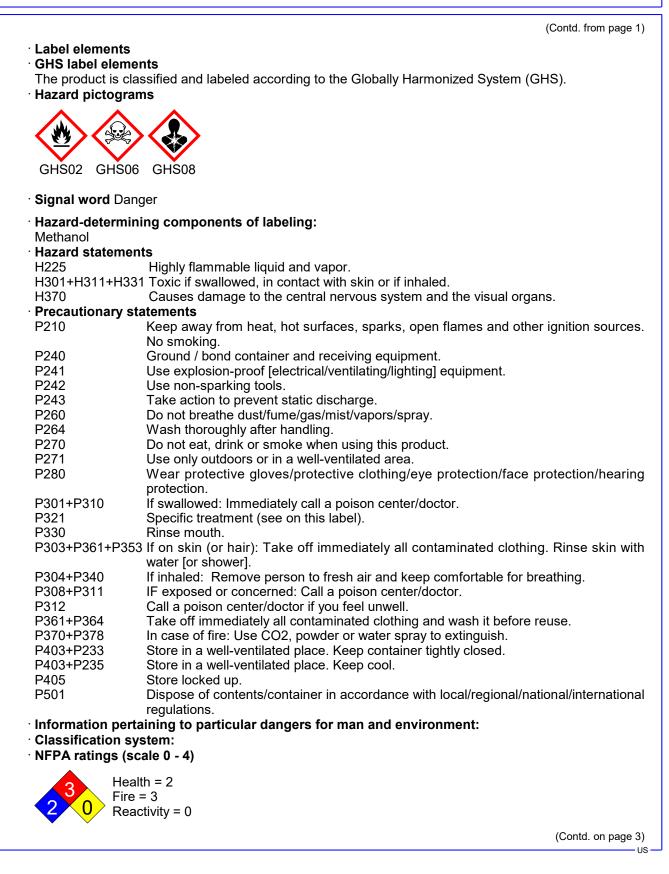
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1 Identification · Product identifier · Trade name: JWH 203 N-(4-hydroxypentyl) metabolite • Synonym 2- (2-chlorophényl) -1- [1- (4-hydroxypentyl) -1H-indol-3-yl]-éthanone · Other means of identification · Article number: 14227 · Application of the substance / the mixture This product is for research use - Not for human or veterinary diagnostic or therapeutic use. · Details of the supplier of the safety data sheet Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA · Information department: Product safety department Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300 Outside US/CANADA: 703-741-5970 2 Hazard(s) identification · Classification of the substance or mixture GHS02 Flame Flammable liquids 2 H225 Highly flammable liquid and vapor. GHS06 Skull and crossbones Acute toxicity - oral 3 H301 Toxic if swallowed. Acute toxicity - dermal 3 H311 Toxic in contact with skin. Acute toxicity - inhalation 3 H331 Toxic if inhaled. GHS08 Health hazard Specific target organ toxicity (single exposure) 1 H370 Causes damage to the central nervous system and the visual organs. (Contd. on page 2)

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· HMIS-ratings (scale 0 - 4)

HEALTH *2	Health = *2
	Fire = 3
REACTIVITY 0	Reactivity = 0

· Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- vPvB: Not applicable.
- Classification according to (d)(1)(ii) of § 1910.1200

The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

· Hazards not otherwise classified

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 67-56-1 Methanol RTECS: PC1400000 99.0%

1.0%

· Other ingredients

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4 First-aid measures

· Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Remove breathing apparatus only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

· After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Do not induce vomiting; immediately call for medical help.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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- **Special hazards arising from the substance or mixture** 67-56-1During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away. Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water. · Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation. Protective Action Criteria for Chemicals · PAC-1: 67-56-1 Methanol 530 ppm · PAC-2: 67-56-1 Methanol 2,100 ppm · PAC-3: 67-56-1 Methanol 7200* ppm **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

• **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols.

- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
 Protect against electrostatic charges.
 Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

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67-50 PEL REL TLV	ponents with limit values that require monitoring at the workplace: 6-1 Methanol Long-term value: 260 mg/m ³ , 200 ppm Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI
PEL REL TLV	Long-term value: 260 mg/m ³ , 200 ppm Short-term value: 325 mg/m ³ , 250 ppm Long-term value: 260 mg/m ³ , 200 ppm Skin Short-term value: 328 mg/m ³ , 250 ppm Long-term value: 262 mg/m ³ , 200 ppm Skin; BEI
REL TLV • Ingre 67-5	Short-term value: 325 mg/m³, 250 ppm Long-term value: 260 mg/m³, 200 ppm Skin Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI edients with biological limit values:
TLV • Ingre 67-5	Long-term value: 260 mg/m³, 200 ppm Skin Short-term value: 328 mg/m³, 250 ppm Long-term value: 262 mg/m³, 200 ppm Skin; BEI edients with biological limit values:
· Ingre 67-5	Long-term value: 262 mg/m³, 200 ppm Skin; BEI edients with biological limit values:
67-5	
BEI	6-1 Methanol
	15 mg/L Medium: urine Time: end of shift Parameter: Methapol (background, ponspecific)
	Parameter: Methanol (background, nonspecific) tional information: The lists that were valid during the creation were used as basis.
Store Avoid Brea In ca expo	h hands before breaks and at the end of work. e protective clothing separately. d contact with the eyes and skin. thing equipment: use of brief exposure or low pollution use respiratory filter device. In case of intensive or long sure use respiratory protective device that is independent of circulating air. ection of hands:
	Protective gloves
Due	glove material has to be impermeable and resistant to the product/ the substance/ the preparation to missing tests no recommendation to the glove material can be given for the product/ tl aration/ the chemical mixture. ction of the glove material on consideration of the penetration times, rates of diffusion and tl
Sele degra	adation erial of gloves

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· Eye protection:



Tightly sealed goggles

9 Physical and chemical properties

· Information on basic physical and chemical properties		
· General Information		
· Physical state	Liquid	
· Color:	According to product specification	
· Odor:	Alcohol-like	
· Structural Formula	C21H22CINO2	
 Molecular Weight 	355.9 g/mol	
· Storage Buffer	5	
· Odor threshold:	Not determined.	
· Formulation	A solution in methanol	
 Melting point/Melting range: 	-98 °C (-144.4 °F)	
· Boiling point/Boiling range:	64.7 °C (148.5 °F)	
· Flammability:	Highly flammable.	
· Explosion limits:	3 7	
Lower:	5.5 Vol %	
· Upper:	44 Vol %	
· Flash point:	11 °C (51.8 °F)	
Auto igniting:	455 °C (851 °F)	
 Decomposition temperature: 	Not determined.	
pH-value:	Not determined.	
· Viscosity:		
· Kinematic:	Not determined.	
SOLUBILITY		
· Dynamic:	Not determined.	
 Solubility in / Miscibility with 		
Water at 20 °C (68 °F):	1000 g/l	
Partition coefficient (n-octanol/water):	Not determined.	
Vapor pressure at 20 °C (68 °F):	128 hPa (96 mm Hg)	
Vapor pressure:		
· Density at 20 °C (68 °F):	0.79 g/cm³ (6.59255 lbs/gal)	
· Relative density	Not determined.	
· Vapor density	Not determined.	
 Particle characteristics 	Not applicable.	
· Other information		
· Appearance:		
· Form:	Liquid	
· Important information on protection of heal	•	
and environment, and on safety.		
· Ignition temperature:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of	
Danger of explosion.	explosive air/vapor mixtures are possible.	
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· Solvent content:	
· Organic solvents:	99.0 %
· VOC content:	99.00 %
	990.0 g/l / 8.26 lb/gal
 Solids content: 	0.0 %
• Change in condition	
· Evaporation rate	Not determined.

10 Stability and reactivity

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · **Incompatible materials:** No further relevant information available.
- Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:
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ATE (Acu	-	/ Estimate)
	LD50	101 mg/kg (rat)
Dermal	LD50	101 mg/kg (rat) 303 mg/kg (rabbit)
Inhalative	LC50/4 h	3.13 mg/l (rat)

67-56-1 Methanol		
Oral	LD50	100.1 mg/kg (rat) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) Symptoms: Nausea, Vomiting
Dermal	LD50	300.1 mg/kg (rabbit) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Inhalative	LC50/4 h	 3.1 mg/l (rat) (Expert judgment) Remarks: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2) Symptoms: Irritation symptoms in the respiratory tract.
Primary ir		
· on the ski		
on the eye	: No irrita	ting effect.

• Sensitization: No sensitizing effects known.

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• Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Toxic

- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

- · OSHA-Ca (Occupational Safety & Health Administration)
- None of the ingredients is listed.

· Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · **Bioaccumulative potential** No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agent: Water, if necessary with cleansing agents.

14 Transport information

- · UN-Number
- · DOT, IMDG, IATA

UN1230

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· UN proper shipping name · DOT, IATA · IMDG	Methanol METHANOL
Transport hazard class(es)	
· Class	3 Flammable liquids 3, 6.1
· IMDG	
Class	3 Flammable liquids
Label	3/6.1
Class	3 Flammable liquids
Label	3 (6.1)
· Packing group · DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	Not applicable.
· Transport/Additional information: · DOT	
Quantity limitations	On passenger aircraft/rail: 1 L On cargo aircraft only: 60 L
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IATA	
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· Remarks:	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
 Special precautions for user 	Warning: Flammable liquids
· Hazard identification number (Kemler code)	: 336
EMS Number:	F-E,S-D
· Stowage Category	В
· Stowage Code	SW2 Clear of living quarters.
· UN "Model Regulation":	UN 1230 METHANOL, 3 (6.1), II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

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· Section 3	355 (extremely hazardous substances):	
None of t	he ingredients is listed.	
· Section 3	313 (Specific toxic chemical listings):	
67-56-1 I	Vethanol	
· TSCA (To	oxic Substances Control Act):	
67-56-1 I	Vlethanol	ACTIV
Hazardou	us Air Pollutants	-
67-56-1 I	Vethanol	
· Chemica	Is known to cause cancer:	
None of t	he ingredients is listed.	
· Chemica	Is known to cause reproductive toxicity for females:	
None of t	he ingredients is listed.	
· Chemica	Is known to cause reproductive toxicity for males:	
None of t	he ingredients is listed.	
· Chemica	Is known to cause developmental toxicity:	
67-56-1 I	Vethanol	
· Carcinog	jenic categories	
· EPA (Env	vironmental Protection Agency)	
None of t	he ingredients is listed.	
· TLV (Thr	eshold Limit Value)	
None of t	he ingredients is listed.	
NIOSH-C	a (National Institute for Occupational Safety and Health)	
	he ingredients is listed.	
· Chemica	I safety assessment: A Chemical Safety Assessment has not been carried out.	

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16 Other information All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein. · Department issuing SDS: Environment protection department. · Contact: - Date of previous version 10/11/2022 Date of preparation 03/19/2025 Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety **OSHA: Occupational Safety & Health** TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit BEI: Biological Exposure Limit Flammable liquids 2: Flammable liquids – Category 2 Acute toxicity - oral 3: Acute toxicity - Category 3 Specific target organ toxicity (single exposure) 1: Specific target organ toxicity (single exposure) - Category 1 ** Data compared to the previous version altered.