

Version	Revision Date:	SDS Number:	Date of last issue: 2024/01/15
VCISION	Revision Date.		
3.0	2024/01/26	100000014542	Date of first issue: 2018/08/20
3.0	2024/01/20	100000014342	Date of first issue. 2010/00/20

### **SECTION 1. IDENTIFICATION**

 Substance name
 : SPRAVATO®

 Nasal spray device Delivering 0.2 mL Solution, containing

 32.3 mg of esketamine hydrochloride aqueous solution (28 mg of esketamine)

### Manufacturer or supplier's details

Company name of supplier	:	Janssen Pharmaceuticals, Inc.
Address	:	1125 Trenton-Harbourton Rd Titusville NJ 08560
		USA
Telephone	:	+16097302000
E-mail address of person responsible for the SDS	:	SDSJanssen@its.jnj.com
Emergency telephone number	:	CHEMTREC US: 1-800-424-9300 CHEMTREC International: +1 703-741-5970

### Recommended use of the chemical and restrictions on use

Recommended use	<ul> <li>Finished Pharmaceutical Product Pharmacotherapeutic group: Psychoanaleptics This SDS is only intended for occupational use and not for consumer use (see patient packaging insert for consumer use). This SDS is written to provide environmental, health and safety information for personnel that will be handling this finished pharmaceutical product. For health and safety information during manufacturing of this product we refer to the appropriate SDS for each component. This dosage form is not exempt from the requirements of the OSHA Hazard Communication Standard (US OSHA Standard</li> </ul>
	OSHA Hazard Communication Standard (US OSHA Standard 29 CFR Part 1910.1200).

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)				
Long-term (chronic) aquatic hazard	:	Category 3		
GHS label elements				
Hazard statements	:	H412 Harmful to aquatic life with long lasting effects.		



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Precautionary statements

**Prevention:** 

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P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture

Chemical nature : Liquid

### Components

Chemical name	CAS-No.	Concentration (% w/w)					
(S)-(+)-ketamine hydrochloride (N*)	33643-47-9	>= 10 - < 20					
Actual concentration is withheld as a trade secret							

Actual concentration is withheld as a trade secret

### **SECTION 4. FIRST AID MEASURES**

If inhaled	:	If breathed in, move person into fresh air. Consult a physician.
In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off with soap and water. If symptoms persist, call a physician.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 5 minutes. Remove contact lenses. If eye irritation persists, consult a specialist.
If swallowed	:	If swallowed, rinse mouth with water (only if the person is conscious). Call a physician immediately.
Most important symptoms and effects, both acute and delayed	:	anxiety Dissociation Dizziness Increased blood pressure nausea numbness sedation taste disorders Vertigo



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			Vomiting lethargy anxiety	
Note	s to physician	:	Treat symptomatically.	
SECTION	<b>1</b> 5. FIREFIGHTING MEA	SU	RES	
Suita	able extinguishing media	:	Use extinguishing measures th circumstances and the surroun	
-	Hazardous combustion : No information available. products			
Furth	ner information	:	No information available.	
Special protective equipment : In the event of fire, wear self-contained breathing application for firefighters			ontained breathing apparatus.	

## SECTION 6. ACCIDENTAL RELEASE MEASURES

for firefighters

Personal precautions, protective equipment and emergency procedures	:	In the event of an accidental release the emergency response team must respond based on a risk assessment and use personal protective equipment as appropriate. Evacuate personnel to safe areas.
Environmental precautions	:	Should not be released into the environment. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	:	Large spills: Dam up. Soak up with inert absorbent material. Keep in properly labelled containers. Small spills: Gently cover the spill with an absorbent towel or pad. Large spills + Small spills: Keep in suitable, closed containers for disposal. Treat recovered material as described in the section "Disposal considerations".

### **SECTION 7. HANDLING AND STORAGE**

Advice on protection against fire and explosion	:	No data available
Advice on safe handling	:	Do not break, crush or spill this Finished Pharmaceutical Product. To avoid thermal decomposition, do not overheat. Use personal protective equipment as required. Avoid inhalation, ingestion and contact with skin and eyes.
Conditions for safe storage	:	To maintain product quality, do not store in heat or direct sunlight.



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		Keep c Keep a		closed in a cool, well-ventilated place. nd sources of ignition.
	mmended storage erature	: 59 - 77	°F / 15 - 25 °C	

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	
		exposure)	Permissible	
			concentration	
(S)-(+)-ketamine hydrochloride	33643-47-9	TWA	0.024 mg/m3	J&J
(N*)				OEL/PBOEL
				HHC
		STEL	0.19 mg/m3	J&J
				OEL/PBOEL
				HHC
		PBOEL-HHC	2	J&J
				OEL/PBOEL
				HHC
			hazard banding nota	
	HHC. This sub	ostance is classif	ied by J&J as being F	PBOEL HHC 2.
	necessary. If this product prescribed us Health Safety Validated Ind developed to Active Pharm contact Burea (BV_LZLab@	is processed no e, contact the In Expert to asses ustrial Hygiene A monitor and qua aceutical Ingredi au Veritas Labora	onment Health Safety ot in accordance with dustrial Hygiene / En s the situation. Analytical methods are intify inhalable expos- ient. For more informatories - Lake Zurich om) or the Laboratory intal Hygiene (lamh.be	the vironment e ure to the ation
Personal protective equipment	t			
Respiratory protection :	No personal i required.	espiratory protec	ctive equipment norm	ally
Hand protection	Discoschia			

## Components with workplace control parameters

Eye protection	:	No special precautions required.

Remarks

: Disposable gloves



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Skin a	and body protection	:	closed work clothing	
Prote	ctive measures	:	The type of protective equipme the Environmental Health and S Consult a Environmental Health necessary.	Safety risk assessment.
Hygie	ne measures	:	Handle in accordance with goo practice.	d industrial hygiene and safety

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

	Appearance	:	solution
	Colour	:	No data available
	Odour	:	No data available
	Odour Threshold	:	No data available
	рН	:	No data available
	Melting point/range	:	No data available
	Boiling point/boiling range	:	No data available
	Flash point	:	No data available
	Self-ignition	:	No data available
	Upper explosion limit / Upper flammability limit	:	No data available
	Lower explosion limit / Lower flammability limit	:	No data available
	Vapour pressure	:	No data available
	Relative vapour density	:	No data available
	Relative density	:	No data available
	Density	:	No data available
Solu	ubility(ies) <u>Water solubility</u>		No data available
	<u>water solubility</u>	•	NU Uala avaliable
	Solubility in other solvents	:	No data available
	Partition coefficient: n- octanol/water	:	No data available



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Decor	mposition temperature	: No data available	
Viscosity <u>Visco</u> s	sity, dynamic	: Not applicable	
Visco	sity, kinematic	: No data available	

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	No dangerous reaction known under conditions of normal use.
Conditions to avoid	:	To avoid thermal decomposition, do not overheat.
Incompatible materials	:	None known.
Hazardous decomposition products	:	None known.

## SECTION 11. TOXICOLOGICAL INFORMATION

## Acute toxicity

### Product:

Acute oral toxicity	:	Acute toxicity estimate: 3,817 mg/kg
		Method: Calculation method

### Components:

## (S)-(+)-ketamine hydrochloride (N\*):

(S)-(+)-ketamine hydrochlori	de	(N*):
Acute oral toxicity	:	LD50 (Mouse): 616 mg/kg Method: Acute oral toxicity
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available
Acute toxicity (other routes of administration)	:	LD50 (Rat): 200 mg/kg Application Route: intraperitoneal; injection made in the abdominal area Method: Acute toxicity study LD50 (Rat): 35 mg/kg Application Route: intravenous injection
		Method: Acute toxicity study



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	Skin co	orrosion/irritation			
	Compo	onents:			
		ketamine hydrochl	oride	(N*):	
	Remar	KS	:	No data available	
	Seriou	s eye damage/eye i	rritati	on	
	Compo	onents:			
		ketamine hydrochl	oride		
	Remar	KS	:	No data available	
	Respir	atory or skin sensit	isatio	n	
	<u>Compo</u>	onents:			
		ketamine hydrochl	oride		
	Result		:	Not expected to cause skin sen	sitization
	Germ o	cell mutagenicity			
	Compo	onents:			
		ketamine hydrochl	oride		
	Genoto	xicity in vitro	:	Method: Bacterial Reverse Mur Result: negative GLP: yes	tation Test OECD 471
				Method: In Vitro Mammalian Ce TK) OECD 476 Result: positive GLP: yes	ell Gene Mutation Test (MLA
				Method: In Vitro Mammalian Ce	ell Micronucleus Test OECD
				487 Result: positive GLP: no	
	Genoto	xicity in vivo	:	Method: In vivo Mammalian Ery OECD 474 Result: negative GLP: yes	/throcyte Micronucleus Test
				Method: In vivo Single Cell Gel Assay) Result: negative GLP: yes	Electrophoresis Assay (Comet
	Germ o Assess	ell mutagenicity - ment	:	No evidence of mutagenicity ba	used on weight of evidence.



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## Carcinogenicity

## Components:

(S)-(+)-ketamine hydrochloride (N*):				
Species Application Ro Exposure time Dose Method Result GLP	:	Mouse, male and female Subcutaneous; injection made in the back or neck of animal 26 weeks 10, 25, 75 mpk carcinogenicity study No evidence of carcinogenicity in animal studies. yes		
Species Application Ro Exposure time Dose Method Result GLP	:	Rat, male and female intranasal (IN) administration 104 weeks 2,7-9-27 mg/kg carcinogenicity study No evidence of carcinogenicity in animal studies. yes		
Carcinogenicity Assessment	<b>y</b> - :	No evidence of carcinogenicity.		
IARC		of this product present at levels greater than or equal to 0.1% is bable, possible or confirmed human carcinogen by IARC.		
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.			
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.			

## **Reproductive toxicity**

## Components:

## (S)-(+)-ketamine hydrochloride (N\*):

Effects on fertility :	Species: Rat, male and female Application Route: intranasal (IN) administration Dose: 2,7 - 9 - 27 mg/kg General Toxicity - Parent: NOAEL: 2.7 mg/kg General Toxicity F1: NOAEL: 27 mg/kg GLP: yes
Effects on foetal : development	Species: Rat, female Application Route: intranasal (IN) administration Dose: 15, 50, 150 mg/kg General Toxicity Maternal: NOAEL: 15 mg/kg Teratogenicity: NOAEL: 150 mg/kg Method: Developmental Toxicity GLP: yes



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				Species: Rabbit, female Application Route: intranasal (IN Dose: 10, 30, 100 mg/kg General Toxicity Maternal: NOA Teratogenicity: NOAEL: 10 mg/ Method: Developmental Toxicity GLP: yes	EL: 10 mg/kg kg
				Species: Rat, female Application Route: intranasal (IN Dose: 2,7 - 9 - 27 mg/kg General Toxicity Maternal: NOA Teratogenicity: NOAEL: 27 mg/ Method: Developmental Toxicity GLP: yes	EL: 27 mg/kg kg
	Reprod Assessi	uctive toxicity - ment	:	No evidence of reprotoxicity., N	o effects on or via lactation
	Teratog	enicity - Assessment	:	No evidence of adverse effects	on development.
	STOT -	single exposure			
	<u>Compo</u>	nents:			
	<b>(S)-(+)-</b>   Assessi	<b>ketamine hydrochlori</b> ment	de :	(N*): The substance or mixture is clast toxicant, single exposure, categ	
	стот -	repeated exposure			
	Compo	nents:			
		ketamine hydrochlori	de	(N*):	
	Remark	S	:	No data available	
	Repeat	ed dose toxicity			
	Compo	<u>nents:</u>			
	(S)-(+)-	ketamine hydrochlori	de	(N*):	
	Exposu Number Dose	tion Route		Rat 27 mg/kg intranasal (IN) administration 3 month daily 2,7 - 9 - 27 mg/kg 1 month yes	
	Species			Dog	
	500000	•	•		



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NOAE	I	: 10 mg/kg	
-	- ation Route	: intranasal (IN) administrat	tion
	ure time	: 3 month	
	er of exposures	: daily	
Dose		: 3, 6, 10 mg/kg	
	quent observation	: 1 month	
period			
GLP		: yes	
Specie		: Rat, male and female	
NOAE		: 27 mg/kg	
	ation Route	: intranasal (IN) administrat	tion
	ure time	: 6 month	
	er of exposures	: daily	
Dose		: 2,7 - 9 - 27 mg/kg	
	quent observation	: 6 month	
period			
GLP		: yes	
Specie	S	: Dog, male and female	
NOAE		: 10 mg/kg	
Applica	ation Route	: intranasal (IN) administrat	tion
	ure time	: 9 month	
Numbe	er of exposures	: daily	
Dose		: 3 - 6 - 10 mg/kg	
Subse period	quent observation	: 9 month	
GLP		: yes	
Specie	s	: Rat, female	
	ation Route	: Oral	
	ure time	: 2 weeks	
	er of exposures	: daily	
Dose		: 10 - 20 - 40 mg/kg	
GLP		: yes	
Target	Organs	: Liver, Kidney	
Specie	es	: Rat, male	
	ation Route	: Oral	
	ure time	: 2 weeks	
	er of exposures	: daily	
Dose		: 40 - 80 - 160 mg/kg	
GLP	•	: yes	
Target	Organs	: Liver, Kidney	
Aspira	ation toxicity		
-	a available		
-	ience with human ex	(posure	
	a available		
Toxico	ology, Metabolism, I	Distribution	



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## **Neurological effects** No data available

Further information

No data available

Other health hazards

No data available

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

## Components:

(S)-(+)-ketamine hydrochlorid Toxicity to fish	<ul> <li>e (N*):</li> <li>LC50 (Oncorhynchus mykiss (rainbow trout)): 77.5 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 GLP: yes</li> </ul>
Toxicity to daphnia and other aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 106.7 mg/l Exposure time: 48 h Test Type: Immobilization Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	<ul> <li>ErC50 (Pseudokirchneriella subcapitata (green algae)): 90.9 mg/l</li> <li>End point: Growth rate</li> <li>Exposure time: 72 h</li> <li>Test Type: Growth inhibition</li> <li>Method: OECD Test Guideline 201</li> <li>GLP: yes</li> </ul>
Toxicity to fish (Chronic toxicity)	<ul> <li>NOEC (Brachydanio rerio (zebrafish)): 0.341 mg/l Exposure time: 30 d Test Type: Fish early-life stage (FELS) toxicity test (OECD 210)</li> <li>Method: OECD Test Guideline 210</li> <li>GLP: yes</li> </ul>
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	<ul> <li>NOEC (Daphnia magna (Water flea)): 3.31 mg/l Exposure time: 21 d Test Type: Daphnia reproduction test Method: OECD Test Guideline 211 GLP: yes</li> </ul>
Toxicity to microorganisms	NOEC (activated sludge): 100 mg/l Exposure time: 3 h Test Type: Respiration inhibition



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		Method: OECD Test Guid GLP: yes	deline 209
Persis	stence and degrada	bility	
Comp	oonents:		
(S)-(+)	)-ketamine hydroch	oride (N*):	
Biode	gradability	: aerobic Inoculum: activated sludg Result: Not readily biode Exposure time: 28 d Method: OECD Test Guid GLP: yes	gradable.
Stabili	ty in water	: Test Type: aerobic Degradation half life (DT Method: OECD Test Guid GLP: yes Remarks: Fresh water 1	
		Test Type: aerobic Degradation half life (DT Method: OECD Test Guid GLP: yes Remarks: total system 1	
		Test Type: aerobic Degradation half life (DT Method: OECD Test Guid GLP: yes Remarks: Fresh water 2	
		Test Type: aerobic Degradation half life (DT Method: OECD Test Guid GLP: yes Remarks: total system 2	
Bioac	cumulative potentia	ıl	
Comp	oonents:		
	)-ketamine hydroch cumulation	l <b>oride (N*):</b> : Remarks: No data availa	ble
	on coefficient: n- bl/water	: log Pow: 2.08 pH: 9 Method: OECD Test Guid GLP: yes	deline 107



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Mobi	lity in soil		

### **Components:**

### (S)-(+)-ketamine hydrochloride (N\*):

Distribution among	:	Adsorption/Soil
environmental compartments		Koc: 8.79 - 466.13
		Method: OECD Test Guideline 106

### Other adverse effects

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues	:	In accordance with National, Federal, State and Local regulations.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

### **SECTION 14. TRANSPORT INFORMATION**

### **International Regulations**

### UNRTDG

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

## Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### **National Regulations**

**49 CFR** Not regulated as a dangerous good

### **SECTION 15. REGULATORY INFORMATION**

### California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

### Other regulations



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Restricted to professional users.

Medicinal products in the finished state, intended for the final user, are not subject to GHS labeling.

This product is not subject to TSCA and TSCA 12(b) Export notification because Food, Drugs and cosmetic products are exempt.

### **SECTION 16. OTHER INFORMATION**

### Full text of other abbreviations

J&J OEL/PBOEL HHC J&J OEL/PBOEL HHC /	-	J&J OEL/PBOEL HHC Short term exposure limit
STEL J&J OEL/PBOEL HHC / TWA J&J OEL/PBOEL HHC / PBOEL-HHC		Time weighted average PBOEL-HHC

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative



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This SDS received a major version update triggered by a periodical review of the totality of the content.

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## **Date and Number Formats**

This document uses the following notation for printing dates and numbers:

Date:	Dec 31th, 2012	as	2012/12/31
Numbers:	123456,78	as	123,456.78

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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