

SECTION 1. Identification

Date of issue: 05/23/2015 Version: 1.0

SECTION 1: Identification	
	Cubetanaa
Product form	: Substance
Substance name	: 2-Butylfuran
CAS-No.	: 4466-24-4
Product code	: (US) W2255
Formula	: C8H12O
Synonyms	: Furan, 2-butyl-
L.2. Recommended use and rest	rictions on use
No additional information available	
1.3. Supplier	
Synerzine 5340 Hwy 42 S Ellenwood, Georgia 30294 - USA	
r 404-524-6744 - F 404-577-1651 info@synerzine.com - www.synerzine.com	
1.4. Emergency telephone numb	er
Emergency number	: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US
SECTION 2: Hazard(s) identific	ation
2.1. Classification of the substan	nce or mixture
	nce or mixture
GHS-US classification Flammable liquids Category H226	Flammable liquid and vapour
GHS-US classification	
GHS-US classification Flammable liquids Category H226	
GHS-US classification Flammable liquids Category H226 3 Full text of H statements : see section 16 2.2. GHS Label elements, includi	
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GHS-US classification Flammable liquids Category H226 Full text of H statements : see section 16 C.2. GHS Label elements, includi GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	Flammable liquid and vapour ing precautionary statements : : : Warning : H226 - Flammable liquid and vapour
GHS-US classification Flammable liquids Category H226 Full text of H statements : see section 16 2.2. GHS Label elements, includi GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	Flammable liquid and vapour ing precautionary statements : : : : Warning
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GHS-US classification Flammable liquids Category H226 Full text of H statements : see section 16 2.2. GHS Label elements, includi GHS-US labeling Hazard pictograms (GHS-US) Signal word (GHS-US) Hazard statements (GHS-US)	 Flammable liquid and vapour ing precautionary statements i i i i i i i i i i i i i i i i i i i
GHS-US classification Flammable liquids Category H226 3 Full text of H statements : see section 16 2.2. GHS Label elements, includi	 Flammable liquid and vapour Ing precautionary statements i varining i H226 - Flammable liquid and vapour i P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking, heat, hot surfaces, open flames, sparks P233 - Keep container tightly closed. P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P240 - Wear eye protection, face protection, protective clothing, protective gloves. P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

2.4. Unknown acute toxicity (GHS US)

Not applicable

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

	Product identifier	% 07 100	GHS-US classification
	(CAS-No.) 4466-24-4	97 - 100	Flam. Liq. 3, H226
.6			÷
nove person to fresh air	and keep comfortable for	breathing.	
se skin with water/show	ver. Remove/Take off imm	nediately all	contaminated clothing.
se eyes with water as a p	precaution.		
a poison center/doctor	/physician if you feel unw	vell.	
(acute and delayed	d)		
ial treatment if no	ecessary		
the treatment, rine	Jeessary		
ter spray. Dry powder. F	oam. Carbon dioxide.		
nical			
nmable liquid and vapor	ur.		
autions for fire-fig	ters		
		tive equipm	ent. Self-contained breathing
S			
pment and emergen	ncy procedures		
itilate spillage area. No o	open flames, no sparks, an	d no smokin	g.
-	-		
not attempt to take estic	n without cuitable protec	tivo oquinm	ant For further information refe
			ene ror further mormation refe
•	· · ·		
t and also and any			
	orbont material Natif	thoritics if	reduct ontors course or with
	or bent material. Notify at	it in the strain	nounce enters sewers or public
	d residues at an authorize	d site.	
nes and other ignition so only non-sparking tools ors may accumulate in t	ources. No smoking. Groun s. Take precautionary mea	nd/bond con sures again:	tainer and receiving equipment. st static discharge. Flammable
-			2/7
	ase skin with water/show ase eyes with water as a p l a poison center/doctor is (acute and delayed cial treatment, if no ing media ter spray. Dry powder. F nical mmable liquid and vapo cautions for fire-fig not attempt to take action baratus. Complete protect is spray. Dry powder are a so construction the spillage area. No construction of the spillage area and the spillag	nove person to fresh air and keep comfortable for ise skin with water/shower. Remove/Take off imm ise eyes with water as a precaution. I a poison center/doctor/physician if you feel unw i (acute and delayed) cial treatment, if necessary ing media ter spray. Dry powder. Foam. Carbon dioxide. nical mmable liquid and vapour. cautions for fire-fighters not attempt to take action without suitable protect paratus. Complete protective clothing. cial and emergency procedures ntilate spillage area. No open flames, no sparks, an not attempt to take action without suitable protect protection %: "Exposure controls/personal protection to attempt to take action without suitable protect section 8: "Exposure controls/personal protection full the spillage area. No open flames, no sparks, an not attempt to take action without suitable protect section 8: "Exposure controls/personal protection full the spillage area. No open flames, no sparks, an not attempt to take action without suitable protect section 8: "Exposure controls/personal protection full the spill into absorbent material. Notify at ters. pose of materials or solid residues at an authorize sure good ventilation of the work station. Keep aw nes and other ignition sources. No smoking. Group e only non-sparking tools. Take precautionary mea ors may accumulate in the container. Use explosion ignent.	16 nove person to fresh air and keep comfortable for breathing. Ise skin with water/shower. Remove/Take off immediately all Ise eyes with water as a precaution. 1 a poison center/doctor/physician if you feel unwell. • (acute and delayed) cial treatment, if necessary Ising media ter spray. Dry powder. Foam. Carbon dioxide. nical mmable liquid and vapour. mmable liquid and vapour. cautions for fire-fighters not attempt to take action without suitable protective equipm baratus. Complete protective clothing. 25 pment and emergency procedures ntilate spillage area. No open flames, no sparks, and no smokin not attempt to take action without suitable protective equipm section 8: "Exposure controls/personal protection". t and cleaning up te up liquid spill into absorbent material. Notify authorities if p ters. pose of materials or solid residues at an authorized site. sure good ventilation of the work station. Keep away from head nes and other ignition sous. Tak. por sonid, Ground/bond con e only non-sparking tools. Take presentionary measures agains bors may accumulate in the container. Use explosion-proof equipment.

2-Butylfuran Safety Data Sheet

Vol 77 No 59 / Monday March 26 2012 / Pula . J D. , a

according to Federal Register / Vol. 77, No. 58 / M	onday, March 26, 2012 / Rules and Regulations
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe stora	ge, including any incompatibilities
Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed.
SECTION 8: Exposure contro	ls/personal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering	controls
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection mea	asures/Personal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	
In case of insufficient ventilation wear sui	table respiratory equipment

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties

0.1. Information on basic physical	and chemical properties
Physical state	: Liquid
Appearance	: A pale yellow liquid.
Color	: Pale yellow
)dor	: Sweet wine-like
)dor threshold	: No data available
он	: No data available
Aelting point	: Not applicable
Freezing point	: No data available
Boiling point	: 153 - 154 °C
flash point	: 90 °F TCC
Relative evaporation rate (butyl acetate=1)	: No data available
lammability (solid, gas)	: Not applicable.
/apor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
specific gravity / density	: $0.883 - 0.889 \text{ g/cm}^3$
olubility	: No data available
log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
/iscosity, kinematic	: No data available
/iscosity, dynamic	: No data available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

cording to Federal Register / Vol. //, No. 58 / Monday, N	
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactiv	ity
10.1. Reactivity	
Flammable liquid and vapour.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reaction	ons
No dangerous reactions known under normal con	ditions of use.
10.4. Conditions to avoid	
Avoid contact with hot surfaces. Heat. No flames,	no sparks. Eliminate all sources of ignition.
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition prod	
Under normal conditions of storage and use, haza	rdous decomposition products should not be produced.
SECTION 11: Toxicological inform	ation
11.1. Information on toxicological ef	fects
Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
C ! ! . !	: Not classified
Carcinogenicity	
Carcinogenicity Reproductive toxicity	: Not classified

Aspiratio	n hazard	:	Not classified
SECTIO	N 12: Ecological informatio	n	
12.1.	Toxicity		
Ecology -	general	:	The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
12.2.	Persistence and degradability		
No additi	onal information available		
12.3.	Bioaccumulative potential		
No additi	onal information available		
12.4.	Mobility in soil		
No additi	onal information available		

12.5. Other adverse effects

Specific target organ toxicity – repeated exposure : Not classified

No additional information available

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 13: Disposal considerations

13.1. Disposal methods

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Waste treatment methods Additional information

: Flammable vapors may accumulate in the container.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description UN-No.(DOT) Proper Shipping Name (DOT) Class (DOT) Packing group (DOT) Hazard labels (DOT)

- : UN1993 Flammable liquids, n.o.s., 3, III
- : UN1993
- : Flammable liquids, n.o.s.
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : III Minor Danger
- : 3 Flammable liquid



	3	
DOT Packaging Non Bulk (49 CFR 173.xxx)	203	
DOT Packaging Bulk (49 CFR 173.xxx)	242	
DOT Symbols	G - Identifies PSN requiring a technical name	
DOT Special Provisions (49 CFR 172.102)	 B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the packaging requirements of 173.241 of this subchapter are applicable. If the material has a flast point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. B52 - Notwithstanding the provisions of 173.24b of this subchapter, non-reclosing pressure r devices are authorized on DOT 57 portable tanks. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liqui with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 5 (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 UN2672). T4 - 2.65 178.274(d)(2) Normal	sh hapter relief ids 55 C 2 for ture
DOT Packaging Exceptions (49 CFR 173.xxx)	150	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	60 L	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	220 L	
DOT Vessel Stowage Location	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passen vessel.	ger
Other information	No supplementary information available.	
Transportation of Dangerous Goods		
Transport by sea		
Transport document description (IMDG) UN-No. (IMDG) Proper Shipping Name (IMDG) Class (IMDG) Packing group (IMDG)	UN 1993 FLAMMABLE LIQUID, N.O.S., 3, III 1993 FLAMMABLE LIQUID, N.O.S. 3 - Flammable liquids III - substances presenting low danger	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Limited quantities (IMD	G)
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mited quantities (IMDG)

Air transport

Transport document description (IATA)	: UN 1993 Flammable liquid, n.o.s., 3, III
UN-No. (IATA)	: 1993
Proper Shipping Name (IATA)	: Flammable liquid, n.o.s.
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger

: 5 L

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

No additional information available

EU-Regulations

2-Butylfuran (4466-24-4)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

2-Butylfuran (4466-24-4)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on NZIoC (New Zealand Inventory of Chemicals)

- Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
- Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

No additional information available

SECTION 16: Other information

 1 - Materials that, under emergency conditions, can cause significant irritation. 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient
: 3 - Liquids and solids (including finely divided suspended
temperature conditions.
: 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.
: 1 Slight Hazard - Irritation or minor reversible injury possible
: 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)
 1 Slight Hazard - Materials that are normally stable but can become unstable (self-react) at hig temperatures and pressures. Materials may react non-violently with water or undergo hazardo polymerization in the absence of inhibitors.
: G
G - Safety glasses, Gloves, Vapor respirator

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product