

rsion: 1.0	Revision Date: 12/05/2014	Print Date: 05/08/2015
CTION 1. PRODUCT AND C	OMPANY IDENTIFICATION	
Product name	: ANDEROL 500	
Product Use Description:	Lubricant	
Company:	<u>Manufacturer</u> Anderol Specialty Lubricants, a division 215 Merry Lane East Hanover, NJ 07936 United States of America	of Chemtura Corporation
	Telephone: +1 203-573-4596, Toll Free	9: +1 888-263-3765
Email: Emergency telephone number:	msdsrequest@chemtura.com CHEMTREC: (24 hours) 800-424-9300 : Chemtura Corporation Emergency Resp	
	For additional emergency telephone nu Data Sheet.	mbers see section 16 of the Safety
Prepared by	Product Safety Department (US) +1 866-430-2775	
	MSDSRequest@chemtura.com	

SECTION 2. HAZARDS IDENTIFICATION

Recommended use : Lubricant

Form	liquid
Colour	amber
Odour	mild

GHS Classification

: Category 4
: Category 2
: Category 1
: Category 3
: Category 3

GHS Label element

Signal word	: Warning	
SAP 6.0 SDS 2012-2 NA GHS	1 / 11	SDS Number: 40000001990



	ANDEROL 500	
ersion: 1.0	Revision Date: 12/05/2014	Print Date: 05/08/2015
Hazard pictograms		
Hazard statements	: H315 Causes skin irritation. H317 May cause an allergic sk H332 Harmful if inhaled. H412 Harmful to aquatic life wit	
Other hazards	: None	
Precautionary statements	the workplace. P273 Avoid release to the envir P280 Wear protective gloves. Response: P302 + P352 IF ON SKIN: Was P304 + P340 + P312 IF INHAL	er handling. a well-ventilated area. ing should not be allowed out of ronment. ED: Remove victim to fresh air omfortable for breathing. Call a hysician if you feel unwell. rash occurs: Get medical othing and wash before reuse.
Carcinogenicity:		
IARC	No component of this product pres equal to 0.1% is identified as proba human carcinogen by IARC.	
OSHA	No component of this product pres equal to 0.1% is identified as proba human carcinogen by IARC. No component of this product pres equal to 0.1% is identified as a car carcinogen by OSHA. No component of this product pres equal to 0.1% is identified as a car carcinogen by OSHA.	able, possible or confirmed eent at levels greater than or cinogen or potential eent at levels greater than or
NTP	No component of this product pres equal to 0.1% is identified as a kno by NTP.	



ANDEROL 500

Version: 1.0

Revision Date: 12/05/2014

Print Date: 05/08/2015

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical Name	CAS-No.	Concentration (%)
di-"isodecyl" phthalate	26761-40-0	>= 70 - < 90 %
Butene, homopolymer	9003-29-6	>= 10 - < 20 %
2,2',6,6'-tetra-tert-butyl-4,4'-methylenediphenol	118-82-1	>= 1 - < 5 %
NJTS#: 46728100000-0002 - Proprietary amine		>= 0.1 - < 1 %
diphenylamine	122-39-4	>= 0.1 - < 1 %

SECTION 4. FIRST AID MEASURES

If inhaled	 If inhaled Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of bluish discolouration (lips, ear lobes, fingernails), give oxygen as quickly as possible. If symptoms persist, call a physician. 	
In case of skin contact	 In case of skin contact Wash off with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Get medical attention if irritation develops and persists. 	
In case of eye contact	 In case of eye contact Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist. 	
If swallowed	: If swallowed, DO NOT induce vomiting. Consult a physician if necessary.	
Most important symptoms and effects, both acute and delayed	: None known.	
Notes to physician	: No information available.	

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	 Carbon dioxide (CO2) Dry powder Dry sand 	
SAP 6.0 SDS 2012-2 NA GHS	3 / 11	SDS Number: 40000001990



ANDEROL 500

Version: 1.0	Revision Date: 12/05/2014	Print Date: 05/08/2015
	Alcohol-resistant foam Water mist	
Unsuitable extinguishing media	: High volume water jet	
Specific hazards during firefighting	 Burning produces noxious and Do not allow run-off from fire fig courses. 	
Specific extinguishing methods	: In the event of fire, cool tanks v	vith water spray.
Special protective equipment for firefighters	: In the event of fire, wear self-co Use personal protective equipn	8 11

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	:	Should not be released into the environment. Do not contaminate water. Do not flush into surface water or sanitary sewer system.
Methods and materials for containment and cleaning up	:	Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Advice on safe handling	 Handle in accordance with good industrial hygiene and safety practice. Keep container closed when not in use. Do not use pressure to empty drums. Ensure all equipment is electrically grounded before beginning transfer operations.
Conditions for safe storage	: Keep container tightly closed in a dry and well-ventilated place.
Materials to avoid	: Strong acids and strong bases, Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

SAP 6.0 SDS 2012-2 N	A GHS
----------------------	-------



ANDEROL 500

Version: 1.0

Revision Date: 12/05/2014

Print Date: 05/08/2015

Components with workplace control parameters

NJTS#: 46728100000-0002 - Proprietary amine		TWA	10 ml/m3	ACGIH
diphenylamine	122-39-4	TWA	10 mg/m3	ACGIH
		TWA	10 mg/m3	OSHA P0
		TWA	10 mg/m3	NIOSH REL

Personal protective equipment

Respiratory protection	 Breathing apparatus needed only when aerosol or mist is formed. In the case of vapour formation use a respirator with an approved filter.
Hand protection Remarks	: Neoprene gloves
Eye protection	: Safety glasses with side-shields Tightly fitting safety goggles
Skin and body protection	: impervious clothing
Hygiene measures	 Avoid contact with skin, eyes and clothing. Provide adequate ventilation. Do not breathe dust or spray mist.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid	
Color	: amber	
Odor	: mild	
Odour Threshold	: No data available	
рН	: No data available	
Melting point/range	: Not applicable	
Boiling point/boiling range	: No data available	
Evaporation rate	: No data available	
Flash point	: 249 °C Method: open cup	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapour pressure	: No data available	
Relative vapour density	: No data available	
Relative density	: 0.96	
SAP 6.0 SDS 2012-2 NA GHS	5 / 11	SDS Number: 40000001990



ANDEROL 500

Version: 1.0	Revision Date: 12/05/2014	Print Date: 05/08/2015
Solubility(ies)		
Water solubility	: slightly soluble	
Solubility in other solvents	: No data available	
Partition coefficient: n- octanol/water	: No data available	
Auto-ignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity		
Viscosity, kinematic	: 104.3 mm2/s (40 °C) Method: ASTM D 445	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reaction known under conditions of normal use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not occur.
Conditions to avoid	: Contamination Heat, flames and sparks.
Incompatible materials	: Strong acids and strong bases Strong oxidizing agents
Hazardous decomposition products	: Carbon oxides Nitrogen oxides (NOx)

SECTION 11. TOXICOLOGICAL INFORMATION

SAP 6.0 SDS 2012-2 NA GHS	6 / 11	SDS Number: 40000001990
Acute dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg	
Acute inhalation toxicity (Product)	: Acute toxicity estimate: 14.66 mg/l Exposure time: 4 h Method: Calculation method	
Acute oral toxicity (Product)	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method	
Acute oral toxicity (Product)	: Acute toxicity estimate: > 5,000 mg/kg	



ANDEROL 500 Version: 1.0 Revision Date: 12/05/2014 Print Date: 05/08/2015 (Product) Method: Calculation method : Remarks: Not classified due to lack of data. Skin irritation (Product) Eye irritation di-"isodecyl" phthalate : Species: Rabbit Result: No eye irritation (Component) Method: OECD Test Guideline 405 NJTS#: 46728100000-0002 -Species: Rabbit Result: No eye irritation Proprietary amine (Component) Method: OECD Test Guideline 405 diphenylamine (Component) ÷ Species: Rabbit Result: Mild eye irritation Sensitisation di-"isodecyl" phthalate : Species: Human (Component) Classification: Did not cause sensitisation on laboratory animals. Maximisation Test (GPMT) Species: Guinea pig Classification: Did not cause sensitisation on laboratory animals. **Buehler Test** Species: Guinea pig Classification: Did not cause sensitisation on laboratory animals. NJTS#: 46728100000-0002 -Maximisation Test (GPMT) Proprietary amine Species: Guinea pig (Component) Classification: May cause sensitisation by skin contact. Result: May cause sensitisation by skin contact. Patch Test Species: Human Classification: May cause sensitisation by skin contact. Result: The product is a skin sensitiser, sub-category 1A. diphenylamine (Component) : Species: Guinea pig Result: Does not cause skin sensitisation. Repeated dose toxicity diphenylamine (Component) Species: Mouse, male Application Route: Oral Target Organs: Blood, Liver, Kidney Exposure time: (90 d) NOEL: 1.7 mg/kg Lowest observed effect level: 93.8 mg/kg Species: Mouse, female Application Route: Oral SAP 6.0 SDS 2012-2 NA GHS 7/11 SDS Number: 40000001990



ANDEROL 500

Version: 1.0	Revisio	on Date: 12/05/2014	1	Print Date:	05/08/2015
	Exp NO	get Organs: Blood, I osure time: (90 d) EL: 2.1 mg/kg rest observed effect)	
Aspiration toxicity (Product)	No a	spiration toxicity cla	ssification		
CMR effects di-''isodecyl'' phthalate (Component)		agenicity: In vitro te atogenicity: No effec			effects
NJTS#: 46728100000-0002 - Proprietary amine (Component)	Mut	cinogenicity: Anima agenicity: Animal te pacterial or mamma	sting did not show	v any mutag	genic effects., T
diphenylamine (Component)	Mut Tera	cinogenicity: Not cla agenicity: Animal te atogenicity: No toxic productive toxicity: N	sting did not show	v any mutag n	
Further information (Product)	: The	re is no data availal	ole for this produc	st.	

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

AP 6.0 SDS 2012-2 NA GHS	8 / 11	SDS Number: 4000000199
	EC50: > 10,000 mg/l Exposure time: 3 h	
Toxicity to bacteria NJTS#: 46728100000-0002 - Proprietary amine (Component)	: EC50: 2 mg/l Exposure time: 48 h Species: Protozoa	
Toxicity to algae (Product)	: Remarks: No data available	
Toxicity to daphnia and other aquatic invertebrates (Product)	: Remarks: No data available	
Toxicity to fish (Product)	: Remarks: No data available	



ANDEROL 500

sion: 1.0	Revision Date: 12/05/2014	Print Date: 05/08/20
	Species: Bacteria	
	other aquatic invertebrates (Chronic toxicity 202 - : NOEC: 0.02 mg/l Exposure time: 21 d Species: Daphnia magna (Water Analytical monitoring: yes	
Elimination information	(persistence and degradability)	
Bioaccumulation (Produc	t) : Remarks: No data available	
Mobility (Product)	: Remarks: No data available	
Biodegradability di-''isodecyl'' phthalate (Component)	: aerobic Result: Readily biodegradable. 99 %	
NJTS#: 46728100000-00 Proprietary amine (Component)	002 - : aerobic Result: According to the results of product is not readily biodegrada 0 % Method: OECD Test Guideline 3	able.
Further information on	ecology	
Ecotoxicology Assessi	nent	
Results of PBT assessm This substance is not con Additional ecological information (Product) (Product)	ent (Product) nsidered to be persistent, bioaccumulating : There is no data available for this : The product itself has not been to Harmful to aquatic organisms, m effects in the aquatic environmer	s product. ested. ay cause long-term adverse

Disposal methods

Waste from residues	: In accordance with local and national regulations.
Contaminated packaging	: Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION



ANDEROL 500

Version: 1.0

Revision Date: 12/05/2014

Print Date: 05/08/2015

ADR Not dangerous goods

RID Not dangerous goods

MERCOSUR Not dangerous goods

DOT Not dangerous goods

IATA Not dangerous goods

IMDG Not dangerous goods

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
aniline	62-53-3	5000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
aniline	62-53-3	5000	*
*: Calculated RQ exceeds r	easonably attainable uppe	er limit.	
SARA 311/312 Hazards	: Acute Health Hazard	b	
SARA 302	: No chemicals in this requirements of SAI		
SARA 313		s that exceed the th	mical components with nreshold (De Minimis) ïtle III, Section 313.
5.0 SDS 2012-2 NA GHS	10 / 11		SDS Number: 4000000199



ANDEROL 500

Version: 1.0

Revision Date: 12/05/2014

Print Date: 05/08/2015

US State Regulations California Prop 65 WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. di-"isodecyl" phthalate 26761-40-0 The components of this product are reported in the following inventories: US.TSCA **On TSCA Inventory** DSL All components of this product are on the Canadian DSL. On the inventory, or in compliance with the inventory AICS NZIOC On the inventory, or in compliance with the inventory ENCS On the inventory, or in compliance with the inventory KECI

KECIOn the inventory, or in compliance with the inventoryPICCSOn the inventory, or in compliance with the inventoryIECSCOn the inventory, or in compliance with the inventoryCH INVThe mixture contains a polymer. The monomers for this polymer
have been notified.

SECTION 16. OTHER INFORMATION

Further information

Other Emergency Phone Number

Latin America:	Brazil	+55 113 711 9144
	All other countries	+44 (0) 1235 239 670
<u>Mexico:</u>		+52 555 004 8763

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.